

453
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Index to the Supplement

TO THE

CALCUTTA GAZETTE

FROM

January to December 1871.

(611)

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No. 1

of 1871



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, JANUARY 4, 1871.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT, separately, on payment of six Rupees per annum if delivered in Calcutta, or twelve Rupees if sent by Post.

Report on the state of the Salt Market during the Second Quarter of 1870-71.

From R. L. MANGLES, Esq., Officiating Secretary to the Board of Revenue, Lower Provinces, to the Officiating Secretary to the Government of Bengal, Revenue Department,—
(No. 676C, dated the 12th December 1870.)

I AM directed by the Board of Revenue to submit the following report on the state of the salt market for the second quarter of 1870-71, comprising the months of July, August, and September last.

2. The quantity of Government salt sold at the Presidency under wholesale rowannahs amounted to maunds 3,455, as shewn in the margin, giving a monthly average of maunds 1,151 against maunds 3,333 in the preceding quarter. The total sales, which, as in the previous seven quarters, were confined to the Hidgelles stocks, show a decrease of maunds 6,550 as compared with those in the preceding quarter.

3. The sales of Government salt at Pooree amounted to maunds 2,260, against maunds 3,300 in the preceding quarter and maunds 72,818 in the corresponding quarter of 1869-70. The decrease in the sales during the last four quarters, as compared with previous sales, is attributable, as already explained, to the exhaustion of the stocks of Kurkutch salt at the several aungas. The Pungah salt now in store at Pooree, as stated before, is not in great demand there, owing to supplies of Kurkutch, which is less expensive, being available in the market. Arrangements are still in progress for the immediate disposal of the whole storage.

4. The quantities of excise salt sold in Cuttack, Balasore, Pooree, and the 24-Pergunnahs, from the stocks of the different seasons, and the quantities which remained in store at the close of the quarter, are shewn in the following statement:—

	CUTTACK.		BALASORE.			POOREE.	24-PERGUN- NAHS.
	MANUFACTURE OF		MANUFACTURE OF			MANU- TURE OF	MANUFACTURE OF
	1867-68.	1868-70.	1867-68.	1868-69.	1869-70.	1869-70.	1869-70.
Balasore, at close of last quarter	Mds. Srs.	Mds. Srs.	Mds. Srs.	Mds. Srs.	Mds. Srs.	Mds. Srs.	Mds. Srs.
Manufactured during the quarter	146 10	51,343 10	6,240 35	16,990 3	189,671 20	270,634 0	10,076 5
Surplus found during the quarter	...	...	...	...	...	...	...
Total	146 10	51,343 10	6,240 35	16,990 3	189,671 20	270,634 0	10,076 5
Deduct—							
Quantity sold during the quarter	...	10,464 10	1,371 0	2,810 23	17,378 0	50,160 0	4,250 0
Deficiency or wastage	...	597 33	1,849 10	1,078 39	...	...	...
Totals	...	10,862 7	3,210 19	3,889 23	17,378 0	50,160 0	4,250 0
Balasore, at close of quarter	146	45,490 33	3,080 15	12,001 21	123,600 0	317,601 0	15,403 0

It will be seen from the above that the total clearances of excise salt during the quarter amounted to maunds 92,448-2, against maunds 80,037-11 in the previous quarter, and maunds 38,210 in the corresponding quarter of 1869-70. There was no manufacture during the quarter, the season for manufacturing salt having closed with June. The large quantity shown as surplus, amounting to maunds 193,100-7, is the difference between the estimate made of the manufacture at the auruugs and the quantity stored in the golahs after weighment.

5. The subjoined statement shows, comparatively, the total importations into the port of Calcutta and the total clearances of sea-imported salt during the quarter and the corresponding quarter of the two preceding years:—

Description of Salt.	2ND QUARTER OF 1868-69.		2ND QUARTER OF 1869-70.		2ND QUARTER OF 1870-71.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Liverpool Punjab	2,023,090	1,743,114	1,463,790	1,697,830	1,510,803	1,824,741
Foreign Kurkutch	207,764	307,828	300,570	257,891	227,203	230,337
Indian Kurkutch	87,733	168,367	278,106	377,059	84,401	310,088
Ceylon	...	30,235	130,773	10,400	45,150	63,488
Total	2,310,505	2,249,544	2,242,168	2,353,170	1,870,505	2,703,894

6. The following are the details of the Indian Kurkutch salt shewn above:—

From whence imported.	2ND QUARTER OF 1868-69.		2ND QUARTER OF 1869-70.		2ND QUARTER OF 1870-71.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Karrackee	...	...	4,100	...	...	2,400
Bombay	87,733	168,367	136,566	193,207	19,300	190,088
Madras	...	...	51,000	160,137	...	124,645
Eunore	...	...	13,050	11,745	...	1,794
Cavelong	...	...	73,800	...	40,000	...
Tuticorin	...	...	...	...	10,300	...
Total	87,733	168,367	278,106	377,059	84,401	310,088

7. The following table shows the total quantity of sea-imported salt remaining in bond at the close of the quarter, as compared with the previous four quarters:—

Where stored.	2nd quarter of 1869-70.	3rd quarter of 1869-70.	4th quarter of 1869-70.	1st quarter of 1870-71.	2nd quarter of 1870-71.
	Mds.	Mds.	Mds.	Mds.	Mds.
Bulkea Government golahs	2,332,708	2,174,023	2,000,421	2,547,841	1,554,200*
Ditto private golahs	...	...	21,210	45,400	48,400
Chooerry golahs	...	...	...	152,037	142,911
Bhilpore ditto	...	...	...	74,293	74,263
Calcutta ditto	17,103	4,572	80,163	10,150	2,351
Chittagong Government golahs	155,862	135,808	355,444	309,277	230,739
Total	2,555,433	2,314,303	2,210,638	3,143,197	2,001,673

* NOTE.—This includes maunds 573 of salt received under section 52 of Act VI. of 1863.

8. The following table exhibits the despatches of salt from Calcutta by water and the three railways via the several salt pass stations into the interior of the country, both east

and west of the river Hooghly, during the quarter under review and the corresponding quarter of the two preceding years:—

Period.	By the Barrackpore Railway.	By the Sankrail Railway.	By the Gowa- Khalee Railway.	By the Kidder- pore Railway.	By the B.A.M. ghatta Railway.	By the East Indian Railway.	By the East- ern Bengal Railway.	By the Cal- cutta and S. E. Railway.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Second quarter of 1868-69...	1,377,860	125,309	65,795	90,886	445,168	299,541	12,791	69
Ditto 1869-70...	1,591,552	128,999	...	77,003	470,060	291,208	12,972	47
Ditto 1870-71...	1,582,108	135,798	106,130	80,120	445,158	285,310	8,800	12

The quantity of salt despatched by the East Indian Railway to stations beyond Buxar, in the quarter under review, amounted to maunds 7,041, against maunds 4,942 in the preceding quarter and maunds 4,176 in the corresponding quarter of 1869-70.

9. The shipments of Liverpool salt for the ports of Calcutta and Chittagong, according to published market reports, were as follows:—

Month.	Calcutta.	Chittagong.
	Tons.	Tons.
July ...	13,343	...
August ...	23,512	2,314
September ...	15,613	805
Total ...	52,474	3,179

10. The prevailing market prices per hundred maunds of Liverpool and other description of salt, at the close of each fortnight during the quarter under report, as compared with those which obtained at the same periods of last year, are shown in the following statement:—

Description of Salt.	Prices on 15th July.		Prices on 31st July.		Prices on 15th August.		Prices on 31st August.		Prices on 15th September.		Prices on 30th September.	
	1869.	1870.	1869.	1870.	1869.	1870.	1869.	1870.	1869.	1870.	1869.	1870.
Liverpool Fungah ...	Rs. 84	Rs. 74	Rs. 81	Rs. 73	Rs. 75	Rs. 73	Rs. 78	Rs. 61	Rs. 78	Rs. 60	Rs. 70	Rs. 64
French Karkuteh ...	Rs. 78	Rs. 65	Rs. 77	Rs. 68	Rs. 77	Rs. 64	Rs. 75	Rs. 62	Rs. 78	Rs. 62	Rs. 70	Rs. 60
Jeddah ditto ...	Rs. 80	Rs. 90	Rs. 80	Rs. 81	Rs. 81	Rs. 95	Rs. 80	Rs. 90	Rs. 77	Rs. 81	Rs. 78	Rs. 78
Ceylon ditto ...	Rs. 69	Rs. 48	Rs. 62	Rs. 46	Rs. 62	Rs. 47	Rs. 60	Rs. 44	Rs. 55	Rs. 44	Rs. 63	Rs. 43
Scinde ditto ...	Rs. 61	Rs. 45	Rs. 61	Rs. 44	Rs. 61	Rs. 44	Rs. 64	Rs. 44	Rs. 64	Rs. 44	Rs. 63	Rs. 44
Bombay ditto ...	Rs. 44	Rs. 42	Rs. 44	Rs. 41	Rs. 53	Rs. 42	Rs. 40	Rs. 48	Rs. 45	Rs. 48	Rs. 45	Rs. 47
Madras ditto ...	Rs. 48	Rs. 50	Rs. 48	Rs. 52	Rs. 51	Rs. 48	Rs. 48	Rs. 48	Rs. 45	Rs. 48	Rs. 45	Rs. 48

11. The following statement exhibits the total quantities of salt that were available for the private export trade at the several depôts in the Madras Presidency on the first day of each of the three months constituting the present quarter, and the corresponding quarter of the years 1868-69 and 1869-70:—

Month.	1868-69.	1869-70.	1870-71.
	Mds.	Mds.	Mds.
July ...	603,749	740,162	770,130
August ...	602,508	727,070	763,650
September ...	675,448	754,092	787,100

12. The following statement shows the quantities of sea-imported salt cleared from bond at Chittagong during the quarter under review and the corresponding quarter of 1869-70. No

salt was bonded at this port during the quarter, nor have any transactions in sea-imported salt been reported for the quarter from any of the Orissa ports.

Description of Salt.	ADMITTED INTO BOND.		CLEANED FROM BOND.	
	1869-70.	1870-71.	1869-70.	1870-71.
	Mds.	Mds.	Mds.	Mds.
Liverpool Punjab	53,936	50,228
Bremen ditto	6,178	2,250
Madras Kurkumh	4,208
Total	59,110	56,686

Abstract of the Results of the Hourly Meteorological Observations taken at the Surveyor-General's Office, Calcutta, in the month of November 1870.

LATITUDE $22^{\circ} 33' 1''$ north, longitude $88^{\circ} 20' 34''$ east. Height of the cistern of the standard barometer above the sea level, 18.11 feet.

MONTHLY RESULTS.

Mean height of the barometer for the month	...	...	Inches.	29.056
Max. height of the barometer occurred at 9 A.M. on the 20th	...	...	...	30.147
Min. height of the barometer occurred at 3 P.M. on the 4th	...	...	...	29.744
Extreme range of the barometer during the month	...	...	...	0.403
Mean of the daily max. pressures	...	...	...	30.023
Ditto ditto min. ditto	...	...	...	29.902
Mean daily range of the barometer during the month	...	...	...	0.121
Mean dry bulb thermometer for the month	...	...	...	75.9
Max. temperature occurred at 2 P.M. on the 2nd	...	...	...	87.0
Min. temperature occurred at 6 and 7 A.M. on the 26th	...	...	...	62.0
Extreme range of the temperature during the month	...	...	...	25.0
Mean of the daily max. temperature	...	...	...	82.2
Ditto ditto min. ditto	...	...	...	70.8
Mean daily range of the temperature during the month	...	...	...	11.4
Mean wet bulb thermometer for the month	...	...	...	71.0
Mean dry bulb thermometer above mean wet bulb thermometer	...	...	...	4.9
Computed mean dew-point for the month	...	...	...	67.6
Mean dry bulb thermometer above computed mean dew-point	...	...	...	8.3
Mean elastic force of vapour for the month	...	...	Inches.	0.072
Mean weight of vapour for the month	...	...	Troy grain.	7.32
Additional weight of vapour required for complete saturation	...	...	...	2.25
Mean degree of humidity for the month, complete saturation being unity	...	...	...	0.77
Mean max. solar radiation thermometer for the month	...	...	...	137.4
Rained 6 days,—max. fall of rain during 24 hours	...	...	Inches.	1.22
Total amount of rain during the month	...	...	...	1.66
Total amount of rain indicated by the gauge* attached to the anemometer during the month	...	...	...	1.56
Prevailing direction of the wind	...	...	...	S W & N by W

* Height 70 feet 10 inches above ground.

GOPZENAUTH SEN,
In charge of the Observatory.

The 29th December 1870.

Results of the Meteorological Observations taken at the Surveyor-General's Office, Calcutta, from 22nd to 31st December 1870.

Month.	Date.	Mean reduced barometer.	Thermometer.			Mean dry bulb.	Mean wet bulb.	Computed mean dew-point.	Mean degree of humidity.	Wind.			Rain.	General Remarks.
			Highest reading.	Lowest reading.	Max. solar radiation.					Prevailing direction.	Max. pressure.	Daily velocity.		
		Inches.		°	°	°	°	°			lb	Miles.	Inch.	
Dec.	22nd	30.930	77.0	58.0	129.0	67.1	61.3	58.7	0.71	W by S & N W	...	50.3	...	Clear. Slightly foggy at 5 & 7 p.m.
	23rd	30.043	75.5	59.0	129.5	66.4	60.4	55.6	.70	N W & N by E	...	121.4	...	Clear.
	24th	30.658	76.3	60.5	127.0	66.7	61.1	58.8	.72	N by E & N N E	...	205.4	...	Clear.
	25th	30.030	74.0	59.1	130.0	65.9	60.8	56.8	.74	N N E & N	...	120.0	...	Clear & cirro strati.
	26th	30.983	74.5	59.4	129.4	66.1	60.5	58.0	.72	N, N by E & W N W	...	131.3	...	Clear & cirrocumuli.
	27th	30.652	74.6	58.0	120.8	65.7	60.5	56.3	.73	W N W	...	87.7	...	Clear. Foggy at 11 p.m.
	28th	30.018	75.9	59.5	128.0	66.2	61.6	57.9	.76	W N W	...	79.0	...	Clear. Slightly foggy from midnight to 3, and at 7 p.m., and from 7 to 11 p.m.
	29th	30.004	77.2	59.6	130.8	67.0	61.4	56.9	.71	W N W	...	75.6	...	Clear. Foggy from midnight to 7 a.m., and 7 to 11 p.m.
	30th	29.961	77.3	60.8	130.0	68.2	62.7	58.3	.72	W N W	...	88.6	...	Clear, cirro cumuli and cirri. Foggy from midnight to 2, and at 6 a.m. and from 7 to 11 p.m.
	31st	30.916	60.1	62.8	134.8	70.2	63.9	58.9	.69	W & W N W	...	121.7	...	Clear. Slightly foggy from 7 to 11 p.m.

The mean barometer, as likewise the dry and wet bulb thermometer means, are derived from the twenty-four hourly observations made during the day.

The dew-point is computed with the Greenwich constants.—The figures in column 10 represent the humidity of the air, the complete saturation of which being taken at unity.—The receiver of the lower rain gauge is 1½ feet, and that of the anemometer 70 feet 10 inches, above the level of the ground.—The velocity of wind, as indicated by Robinson's anemometer, is registered from noon to noon.

The extreme variation of temperature during the past ten days	...	22.1
The max. temperature during the past ten days	...	80.1
The max. temperature during the corresponding period of the past year	...	79.2
The mean humidity during the past ten days	...	0.72
The mean humidity during the corresponding period of the past year	...	0.66
		Inches.
The total fall of rain from 22nd to 31st	{ by lower rain gauge	Nil
	{ by anemometer gauge	Nil
Ditto ditto, average of 16 previous years	...	0.01
Ditto between the 1st January and the 31st December	...	60.26
Ditto ditto ditto, average of 16 years	...	69.51

GOPERNATH SEN,
In charge of the Observatory.

The 3rd January 1871.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY—MAIN LINE.

Approximate Return of Traffic for Week ended 17th December 1870 on 1,131½ miles open.

	COACHING TRAFFIC.				MERCHANDISE & MINERAL TRAFFIC.				Total traffic receipts.
	Number of passengers.	Coaching receipts.			Weight carried.	Receipts.			
		Rs. As. P.	£ s. d.		Mds. Strs.	Rs. As. P.	£ s. d.		£ s. d.
Total traffic for the week ...	20,896	1,23,670 3 8	11,794	18 8	612,816 20	4,31,035 14 0	41,409 10 1	85,204 14 4	
Or per mile of railway ...	18 11 6	10 8 8	10 8 8		539 2 4	38 11 0	36 11 0	47 9 8	
For previous 23 weeks of half-year	2,024,181	30,08,254 15 4	281,348	7 4	11,109,569 0	80,09,831 9 5	733,414 2 11	1,014,763 10 8	
Total for 24 weeks	2,174,013	31,07,925 1 10	293,143	2 9	11,812,566 20	84,40,867 7 5	774,814 2 0	1,067,027 4 9	
COMPARISON.									
Total for corresponding week of previous year	28,393	1,47,925 75 11	15,400	4 6	732,949 10	4,10,946 8 0	38,183 6 4	51,642 9 10	
Per mile of railway corresponding week of previous year	25 0 5	12 18 5	12 18 5		640 1 9	36 14 10	35 14 10	45 13 3	
Total to corresponding date of previous year	2,239,074	31,65,703 0 5	310,856	2 4	13,706,835 35	75,10,340 11 8	689,263 14 8	9,96,519 17 0	

* Rs. 10,815-14-8 added on account of freight of locomotive coal carried on Jabulpore line.

EAST INDIAN RAILWAY—JUBBULPORE LINE.

Approximate Return of Traffic for Week ended 17th December 1870 on 223 miles open.

		Rs. As. P.	£ s. d.	Mds. Strs.	Rs. As. P.	£ s. d.	£ s. d.
Total traffic for the week ...	8,548	11,380 5 0	1,063 5 11	38,833 10	13,765 3 9	1,200 10 8	2,306 9 1
Or per mile of railway ...	38 11 7	4 12 6	4 12 6	174 0 7	61 0 7	5 8 9	10 6 0
For previous 23 weeks of half-year	83,094	1,00,726 12 6	22,985 3 11	610,776 30	2,44,414 3 11	18,782 19 5	41,727 3
Total for 24 weeks	84,094	1,02,700 1 5	24,048 7 10	649,610 0	2,17,579 6 11	19,984 15 7	44,028 3 5
COMPARISON.							
Total for corresponding week of previous year	3,170	9,196 2 4	845 8 8	22,817 30	8,613 4 2	780 19 8	1,024 1 11
Per mile of railway corresponding week of previous year	14 8 11	4 15 7	4 15 7	102 3 3	3 10 1	3 10 1	7 3 8
Total to corresponding date of previous year	72,730	1,00,086 8 0	18,585 14 0	740,475 10	1,04,821 15 7	17,562 13 8	36,254 7 0

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for Week ended 17th December 1870 on 113½ miles open.

		Rs. As. P.	£ s. d.	Mds. Strs.	Rs. As. P.	£ s. d.	£ s. d.
Total traffic for the week ...	22,970	23,874 11 0	1,271 10 11	106,108 4	25,061 14 7½	2,201 16 16	3,663 13 9
Or per mile of railway ...	204	122 8 8	11 4 7	936 0	220 12 2	20 4 9	31 9 4
For previous 23 weeks of half-year	671,634	2,09,189 14 2	27,425 9 2½	2,623,147 31	5,45,109 0 0½	63,034 6 10	61,059 18 0
Total for 24 weeks	694,604	2,11,063 9 2	28,697 0 14	2,729,255 25	5,70,170 5 5	65,236 0 11½	64,682 7 1
COMPARISON.							
Total for corresponding week of previous year	23,182	14,498 9 9½	1,319 12 4	1,23,891 34	17,875 0 11	1,426 10 11	2,958 0 5
Per mile of railway corresponding week of previous year	206	127 3 8	11 13 1	1,094 0	157 13 4	14 9 4	25 3 5
Total to corresponding date of previous year	694,166	2,42,769 10 11½	31,420 11 2	2,879,104 26	4,90,078 5 0	63,462 0 0	70,593 17 2

CALCUTTA AND SOUTH EASTERN STATE RAILWAY.

Approximate Return of Traffic for Week ended 17th December 1870 on 28 miles open.

		Rs. As. P.	£ s. d.	Mds. Strs.	Rs. As. P.	£ s. d.	£ s. d.
Total traffic for the week ...	7,896	1,016 2 0	161 12 8	10,831 10	672 0 0	51 4 0	152 16 8
Or per mile of railway ...	282	36 4 8	5 12 0	386 6	24 4 7	1 10 7	5 9 8
For previous 11 weeks of half-year	64,711	9,201 12 0	920 5 0	122,740 3	3,981 15 0	306 8 11	1,024 7 0
Total for 12 weeks	61,853	10,277 14 0	1,027 15 0	133,571 13	4,653 15 0	446 7 11	1,477 3 2
COMPARISON.							
Total for corresponding week of previous year	4,434	877 6 3	30 8 7	9,064 6	570 6 0	28 2 1	106 17 8
Per mile of railway corresponding week of previous year	158	31 3 4	2 17 5	306 0	11 1 6	1 0 4	3 17 0
Total to corresponding date of previous year	43,237	9,901 11 0	823 4 2	100,945 0	3,960 12 8	308 19 7	1,193 7

SUPPLEMENT TO THE CALCUTTA GAZETTE, JANUARY 4, 1871.

7

EAST INDIAN RAILWAY—MAIN LINE.

Approximate Return of Traffic for week ended 24th December 1870, on 1,131½ miles open.

	COACHING TRAFFIC.			MERCHANDISE AND MINERAL TRAFFIC.			Total Traffic Receipts.
	Number of passengers.	Coaching receipts.		Weight carried.	Receipts.		
		Rs. As. P.	£ s. d.	Mds. Strs.	Rs. As. P.	£ s. d.	£ s. d.
Total traffic for the week ...	83,034	1,82,244 7 11	18,826 2 3	827,184 20	4,08,354 14 9	42,882 10 8	54,968 13 11
Or per mile of railway ...	73 8 11	164 8 11	12 8 8	731 2 0	447 14 8	37 15 11	80 8 7
For previous 24 weeks of half year ...	2,173,915	51,07,823 1 10	231,145 2 9	11,812,569 30	61,02,517 7 0	72,814 2 6	1,087,937 4 9
Total for 25 weeks ...	2,256,939	53,60,178 9 9	307,069 5 0	12,639,753 10	63,33,572 6 2	817,740 12 8	1,192,843 17 8
COMPARISON.							
Total for corresponding week of previous year ...	83,004	1,59,407 9 9	14,050 12 3	863,149 10	3,65,790 8 0	46,323 4 3	60,963 16 4
Per mile of railway corresponding week of previous year ...	73 8 11	141 6 4	12 18 7	731 2 0	447 14 8	40 19 10	80 8 7
Total to corresponding date of previous year ...	2,337,164	55,45,299 10 2	324,076 14 7	14,070,118 5	66,25,021 2 8	735,826 16 11	1,066,808 13 0

EAST INDIAN RAILWAY—JUBBULPORE LINE.

Approximate Return of Traffic for week ended 24th December 1870, on 223 miles open.

		Rs. As. P.	£ s. d.	Mds. Strs.	Rs. As. P.	£ s. d.	£ s. d.
Total traffic for the week ...	2,703	19,578 8 9	1,819 3 11	69,023 30	18,930 6 3	1,707 18 11	2,327 2 10
Or per mile of railway ...	12 10 8	74 8 1	4 10 8	309 10 0	85 0 4	7 15 10	14 13 1
For previous 24 weeks of half year ...	68,065	3,62,796 2 8	24,061 7 10	656,610 0	2,17,379 6 11	18,943 16 7	44,926 3 8
Total for 25 weeks ...	70,468	3,79,279 2 3	25,600 11 0	725,233 30	2,36,358 18 2	21,083 14 6	47,353 6 3
COMPARISON.							
Total for corresponding week of previous year ...	2,733	13,631 8 0	1,210 10 4	50,313 10	14,011 1 0	1,384 7 0	2,334 3 4
Per mile of railway corresponding week of previous year ...	12 10 8	61 2 3	5 12 1	226 10 0	62 13 3	6 15 2	11 7 1
Total to corresponding date of previous year ...	70,472	3,14,314 11 9	19,845 10 4	670,980 20	2,08,842 0 7	19,143 0 8	38,726 10 10

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week ended 24th December 1870, on 113½ miles open.

		Rs. As. P.	£ s. d.	Mds. Strs.	Rs. As. P.	£ s. d.	£ s. d.
Total traffic for the week ...	17,008	14,428 8 0	1,351 16 8	100,900 21	22,445 4 42	9,67 9 8	3,343 5 6
Or per mile of railway ...	150 247	124 4 7	11 16 2	891 0	193 3 1	18 3 8	29 19 8
For previous 24 weeks of half year ...	506,900	3,13,061 0 2	23,007 6 14	3,831,253 30	6,10,103 5 6	36,023 9 11	61,023 7 1
Total for 25 weeks ...	523,908	3,27,090 1 11	24,358 1 24	3,932,153 15	6,32,547 9 42	37,093 14 74	64,343 12 8
COMPARISON.							
Total for corresponding week of previous year ...	17,434	10,189 15 7	1,253 10 0	115,012 1	18,117 8 7	1,060 15 6	2,419 12 3
Per mile of railway corresponding week of previous year ...	154	109 7 0	11 16 8	1,003 0	160 18 8	14 15 2	20 11 11
Total to corresponding date of previous year ...	513,504	3,03,038 10 0	24,370 10 11	3,947,265 23	6,50,180 14 1	37,154 1 6	63,443 13 6

CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Traffic for week ended 24th December 1870, on 26 miles open.

		Rs. As. P.	£ s. d.	Mds. Strs.	Rs. As. P.	£ s. d.	£ s. d.
Total traffic for the week ...	7,309	1,105 4 2	110 10 7	11,490 0	331 2 0	33 9 1	140 10 8
Or per mile of railway ...	281	30 7 7	8 18 11	441 0	12 10 7	1 3 4	5 4 3
For previous 19 weeks of half year ...	61,663	10,377 14 0	1,027 16 9	136,164 13	4,423 13 2	419 7 11	1,477 3 8
Total for 20 weeks ...	68,972	11,383 2 0	1,136 8 4	147,654 13	4,754 8 3	454 17 0	1,623 3 4
COMPARISON.							
Total for corresponding week of previous year ...	4,725	540 0 8	77 0 1	6,423 0	340 8 9	21 4 4	189 4 2
Per mile of railway corresponding week of previous year ...	181	30 0 0	2 15 0	301 0	12 2 7	1 2 4	7 17 4
Total to corresponding date of previous year ...	66,387	9,811 11 3	1,010 8 9	142,587 0	4,390 4 8	394 8 11	1,504 12 2

Meteorological Telegraphic Report for the period 25th to 31st December 1870.

STATIONS.	Date.	Hour.	Barometer reduced to 32°.	Barometer reduced to sea-level.	Thermometer.		Humidity Sat = 100.	Wind.		Rain.	Clouds.	Weather initials.
					Dry.	Wet.		Direction.	Velocity.			
CALCUTTA.	25th	10	30.110	30.197	68.5	61.8	70	NNE				
	25th	12	30.099	30.188	73.0	63.0	54	NNW			CB	
	26th	10	30.083	30.082	68.8	62.0	65	N by E			CB	
	26th	12	30.089	30.088	73.4	62.7	52	WNW			CB	
	27th	10	30.052	30.071	67.8	61.5	66	WNW				
	27th	12	30.074	30.053	73.0	61.5	56	WNW				
	28th	10	30.158	30.127	67.5	61.7	76	WNW				
	28th	12	30.080	30.058	74.7	65.7	59	WNW				
	29th	10	30.074	30.077	69.2	62.8	70	WNW				
	29th	12	30.039	30.067	70.0	63.5	48	WNW				
SUCON ISLAND.	30th	10	30.025	30.044	70.2	63.5	67	WNW			CB	
	30th	12	30.000	30.018	77.0	68.2	53	WNW			CB	
	31st	10	30.007	30.010	72.0	65.0	66	W			CB	
	31st	12	30.065	30.073	70.5	66.2	55	WNW				
	25th	10	30.132	30.138	68	64	79	NNE				
	25th	12	30.090	30.086	75	65	55	NNE				
	26th	10	30.067	30.073	69	65	79	NNE				
	26th	12	30.040	30.046	74	65	56	N				
	27th	10	30.066	30.072	69	64	74	N				
	27th	12	30.045	30.051	76	64	68	NNE				
CHITTAGONG.	28th	10	30.112	30.118	70	66	79	ENE				
	28th	12	30.082	30.088	77	66	63	NE				
	29th	10	30.088	30.084	70	66	79	N				
	29th	12	30.046	30.052	78	71	69	WSW	6.5			
	30th	10	30.041	30.047	79	68	71	ENE	5.0		CB	
	30th	12	30.011	30.017	79	68	54	NE	6.2		CB	
	31st	10	30.016	30.020	73	67	71	NE	5.7		CB	
	31st	12	30.067	30.068	69	69	51	NE	7.7		CB	
	25th	10	30.010	30.018	72	66	71	ESE	5.3			
	25th	12	30.005	30.000	69	64	74	SW	9.7			
MADRAS.	26th	10	30.034	30.037	71	68	73	NE	3.0			
	26th	12	30.009	30.042	73	61	68	W	7.3			
	27th	10	30.043	30.057	70	61	70	W	3.7			
	27th	12	30.014	30.033	77	65	49	E	8.0			
	28th	10	30.087	30.081	70	65	75	ESE	4.7			
	28th	12	30.074	30.087	77	67	56	W	7.1			
	29th	10	30.073	30.067	70	64	70	NE	4.0			
	29th	12	30.004	30.007	76	66	55	W	6.0			
	30th	10	30.000	30.041	71	64	66	ENE	4.0			
	30th	12	30.012	30.025	77	64	53	W	7.5			
COCHIN.	31st	10	30.077	30.001	71	65	70	ESE	2.6			
	31st	12	30.078	30.005	60	67	47	W	6.2			
	24th	10	30.093	30.083	69	72	69	N by W	18			
	24th	12	30.045	30.076	79	69	59	N	16			
	25th	10	30.102	30.100	69	70	63	N	18			
	25th	12	30.080	30.090	79	69	84	N	11			
	26th	10	30.084	30.084	69	71	62	N by W	8			
	26th	12	30.081	30.071	60	70	68	N	14			
	27th	10	30.081	30.071	70	70	61	N by N	11			
	27th	12	30.086	30.086	76	70	65	N by W	14			
AGRA.	28th	10	30.005	30.005	70	73	68	NNW	11			
	28th	12	30.012	30.042	78	72	95	NNW	6	0.08		
	29th	10	30.017	30.047	78	73	77	NNW	12	0.09		
	29th	12	30.019	30.042	77	71	73	N by W	13			
	30th	10	30.019	30.022	60	73	70	WNW	11			
	30th	12	30.073	30.004	78	70	63	N by W	11			
	31st	10	30.081	30.011	81	72	62	N	9			
	31st	12	30.083	30.003	60	76	78	N	12			
	24th	10	30.087	30.171	71	61	63	NNE				Fair.
	24th	12	30.080	30.073	74	68	72	NW				Fair.
CUTTACK.	25th	10	30.005	30.120	67	61	69	NW				Fair.
	25th	12	30.052	30.039	73	63	54	NE				Fair.
	26th	10	30.023	30.113	66	61	75	WNW				Fair.
	26th	12	30.022	30.079	72	62	53	WNW				Fair.
	27th	10	30.046	30.133	67	60	84	WNW				Fair.
	27th	12	30.013	30.096	72	62	53	NW				Fair.
	28th	10	30.065	30.150	67	69	70	SW				Fair.
	28th	12	30.029	30.013	74	69	72	WNW				Fair.
	29th	10	30.043	30.130	68	63	74	WNW				Fair.
	29th	12	30.014	30.087	76	61	48	NNW				Fair.
BOMBAY.	30th	10	30.000	30.074	70	65	75	W				Fair.
	30th	12	30.052	30.012	60	65	40	N				Fair.
	31st	10	30.080	30.064	70	65	75	NW				Fair.
	31st	12	30.031	30.014	78	67	53	NNW				Fair.
	25th	10	30.063	30.009	79	65	71	NE	1.4			
	25th	12	30.038	30.041	78	69	61	NNE	8.2			
	26th	10	30.012	30.028	73	67	73	NE	14.0			
	26th	12	30.011	30.020	76	75	95	NNE	8.3			
	27th	10	30.010	30.028	68	65	79	W by E	2.1			
	27th	12	30.041	30.019	75	67	63	NNE	8.9			
SINGAPORE.	28th	10	30.050	30.008	69	65	79	NE	1.4			
	28th	12	30.030	30.044	77	68	80	NNE	4.2			
	29th	10	30.017	30.028	70	66	78	NNE	12.0			
	29th	12	30.039	30.054	77	68	80	NNE	4.1			
	30th	10	30.090	30.038	69	65	79	NE	2.4			
	30th	12	30.030	30.054	77	68	80	NNE	4.2			
	31st	10	30.046	30.061	71	66	75	NNE	1.6			
	31st	12	30.018	30.031	78	70	85	NNE	4.2			

* Velocity of wind in miles per hour.

CALCUTTA,
The 31st December 1870.HENRY F. BLANFORD
Meteorological Reporter to the Government of Bengal.

Weekly Report of Rainfall compiled at the Meteorological
Reporters' Office.

Circuits.	Stations.	Rainfall from 1st to 15th Dec. 1870.	Rainfall from 16th to 31st Dec. 1870.	Rain from 1st January 1871.		REMARKS.
				Rain.	Up to date.	
SOUTH-WESTERN.	Poorce	Nil	Nil	53.34	25th Dec. 1870.	
	Falac Point	ditto	Not received	54.03	18th Dec. 1870.	
	Calcutta { Telegraph Office	ditto	Nil	50.28	25th Dec. 1870.	
	Calcutta { Jail...	ditto	ditto	49.91	ditto.	
	Jagipore	ditto	Not received	Nil	18th Dec. 1870	From 6th December
	Kandrapurah	ditto	Nil	ditto	25th Dec. 1870	ditto
	Jagatsingapore	ditto	Not received	ditto	18th Dec. 1870	ditto
	Sumbulpore	ditto	ditto	55.63	ditto.	
	Bainsore	ditto	ditto	52.43	ditto.	
	Bludhruck	ditto	ditto	41.11	ditto	From 18th June, and not received 5th to 11th Dec.
WESTERN.	Elchoah	Not received	ditto	45.08	27th Nov. 1870	From 27th June.
	Matanpore	ditto	ditto	46.61	20th Nov. 1870.	
	Gurbatta	ditto	ditto	1.60	9th Dec. 1870	From 25th Sept.
	Tamook	Nil	Nil	8.76	25th Dec. 1870	From 10th October.
	Hanagarah	ditto	ditto	42.26	ditto.	
	Chyebasah	ditto	ditto	53.20	ditto.	
	Pugolia	ditto	ditto	46.77	ditto.	
	Radandpore	Not received	Not received	50.02	30th Oct. 1870	From 23rd May.
	Palamow	Nil	Nil	52.14	25th Dec. 1870	From 6th June.
	Burrowan	ditto	ditto	40.64	ditto.	
CENTRAL.	Cotwa	ditto	Not received	37.37	18th Dec. 1870	From 4th July.
	Calna	Not received	ditto	34.19	11th Dec. 1870	ditto.
	Uard-Bood	Nil	Nil	33.84	25th Dec. 1870	ditto, and not received 28th Nov. to 4th Dec.
	Hanogungu	ditto	ditto	54.43	ditto.	
	Sooree	Not received	ditto	50.19	ditto.	
	Deaghar	Nil	ditto	47.65	ditto.	
	Nudise	Not received	Not received	47.75	4th Dec. 1870.	
	Pazaroobangh	Nil	ditto	50.17	18th Dec. 1870	Not received 21st to 27th Nov.
	Pachamha	Not received	ditto	30.56	4th Dec. 1870	From 26th July.
	Hanalee	Nil	Nil	56.61	25th Dec. 1870.	
NORTH-WESTERN.	Kaneran	ditto	ditto	57.12	ditto	From 28th March.
	Sampur Island	ditto	ditto	50.80	ditto.	
	Lyntur	Not received	Not received	55.70	20th Nov. 1870.	
	Calcutta	Nil	Nil	00.60	31st Dec. 1870.	
	Ho-wrah	ditto	ditto	51.44	ditto.	
	Alipore	ditto	ditto	51.38	25th Dec. 1870	From 30th May.
	Baruckpore	ditto	Not received	21.06	18th Dec. 1870	From 15th May.
	Dum Dam	ditto	Nil	30.04	25th Dec. 1870	ditto.
	Barnet	ditto	ditto	41.55	ditto	ditto.
	Satkhara	ditto	ditto	39.08	ditto	ditto.
SOUTH-WESTERN.	Boatman's	ditto	ditto	37.09	ditto	ditto.
	Diamond Harbour	ditto	ditto	38.06	ditto	ditto.
	Barripore	ditto	ditto	00.21	ditto	ditto, and not received 30th Nov. to 4th Dec.
	Hooghly	ditto	ditto	58.09	ditto.	
	Jessore	ditto	ditto	52.66	ditto.	
	Kashinagar	ditto	Not received	49.85	18th Dec. 1870	From 17th January.
	Ranaghat	ditto	Nil	40.02	25th Dec. 1870	From 7th February.
	Boungong	ditto	Not received	49.22	18th Dec. 1870	From 10th January, and not received 7th to 13th Nov.
	Meharpore	ditto	Nil	42.00	25th Dec. 1870	From 7th Feb., and not received 7th to 13th Nov.
	Choudangah	Not received	Not received	47.70	6th Nov. 1870	From 7th Feb.
SOUTH-WESTERN.	Kochitah	Nil	Nil	55.11	25th Dec. 1870	
	Berhampore	ditto	ditto	58.09	ditto.	
	Farrukhganj	ditto	ditto	50.88	ditto.	
	Dowlat Khan	ditto	ditto	50.28	ditto	From 9th July, and not recorded 1st to 7th Aug. and 25th Sept. to 2nd Oct.
	Barrickul	ditto	ditto	59.80	25th Dec. 1870.	
	Perozepore	ditto	ditto	35.37	ditto	From 11th July, and not received 26th Nov. to 11th Dec.
	Madariapore	Not received	Not received	33.11	4th Dec. 1870	From 11th July.
	Bikampur	Nil	Nil	40.34	25th Dec. 1870.	
	Madhupoorah	ditto	Not received	59.40	18th Dec. 1870	From 2nd May.
	Bunka	Not received	ditto	46.99	30th Oct. 1870	From 25th April.
SOUTH-WESTERN.	Alanghly	Nil	Nil	70.73	25th Dec. 1870.	
	Jamnoia	ditto	Not received	63.31	18th Dec. 1870	From 25th April.
	Regumari	Not received	ditto	48.27	27th Nov. 1870	From 16th May.
	Parnamh	Nil	Nil	9.26	25th Dec. 1870	From 26th September.
	Gya	ditto	ditto	39.13	ditto.	
	Sherghatty	Not received	Not received	39.81	27th Nov. 1870	From 13th June.
	Nowadah	Nil	Nil	42.18	25th Dec. 1870	From 10th June, and not received 6th to 11th Dec.
	Behar	Not received	ditto	41.40	ditto	From 21st March, and not received 12th to 18th Dec.
	Patna	Nil	ditto	55.70	ditto.	
	Arangabad	Not received	Not received	33.27	25th Sept. 1870	From 11th July.
SOUTH-WESTERN.	Rhubhooah	Nil	ditto	51.95	18th Dec. 1870	From 26th September.
	Barh	ditto	Nil	48.08	25th Dec. 1870	From 18th May.
	Arrah	ditto	ditto	47.27	ditto.	
	Buzar	Not received	Not received	48.30	11th Dec. 1870.	
	Chaurah	Nil	Nil	42.04	25th Dec. 1870	
	Sowan	Not received	Not received	55.10	11th Dec. 1870	From 2nd May.
	Champurah	Nil	Nil	67.51	25th Dec. 1870	
	Banarrah	ditto	Not received	45.18	18th Dec. 1870	
	Muzaffarpore	ditto	Nil	78.10	25th Dec. 1870	From 1st March, and not received 5th to 11th Dec.
	Darbhanga	ditto	ditto	Nil	ditto	From 31st Oct.
SOUTH-WESTERN.	Seemaharag	Not received	Not received	ditto	18th Dec. 1870	From 14th Nov.
	Tajpore	Nil	Nil	ditto	20th Nov. 1870	From 1st Nov.
SOUTH-WESTERN.	Dinapore	Nil	Nil	44.57	25th Dec. 1870	From 14th February.

Circuit.	Stations.	Rainfall from 12th to 18th Dec. 1870.	Rainfall from 19th to 25th Dec. 1870.	RAIN FROM 1st JANUARY 1870.		REMARKS.
				Rain.	Up to date.	
		Inch.	Inch.	Inch.		
NORTH-WESTERN.	Ramnore Benaulah	Nil	Nil	58.24	25th Dec. 1870.	
	Natore	ditto	Not received	50.51	18th Dec. 1870.	From 2nd May.
	Pubna	ditto	Nil	55.48	25th Dec. 1870.	
	Coomersally	ditto	ditto	51.05	ditto	From 2nd May, and not received 25th Nov. to 4th Dec.
	Sengungu	ditto	ditto	55.49	ditto	From 16th May.
	Mulshah	ditto	ditto	53.55	25th Dec. 1870.	
	Dograha	ditto	ditto	43.50	ditto	
	Dinapore	ditto	ditto	45.30	ditto	
	Bangalore	ditto	ditto	73.54	ditto	
	Jalpaiguri	ditto	ditto	158.48	ditto	From 2nd May.
	Falacattah	ditto	Not received	90.37	18th Dec. 1870.	From 4th July.
	Doda	ditto	Nil	81.17	25th Dec. 1870.	From 27th June.
	Titalya	ditto	ditto	111.49	ditto	ditto
	Buxa	ditto	ditto	297.15	ditto	
	Rungbee	Not received	Not received	107.10	30th Nov. 1870.	
	Darjeeling { Telegraph Office	ditto	ditto	168.78	16th Nov. 1870.	
	Jail	ditto	ditto	198.45	4th Nov. 1870.	
	Torai	ditto	ditto	67.87	23rd Oct. 1870.	From 16th July.
NORTH-EASTERN.	Gowalparah	Nil	Nil	127.43	25th Dec. 1870.	
	Dhobroo	Not received	Not received	109.42	20th Nov. 1870.	From 30th May.
	Gowhatty	Nil	ditto	48.59	18th Dec. 1870.	
	Tura (Garó Hills)	ditto	ditto	121.33	ditto	From 13th June.
	Shillong	ditto	ditto	71.14	ditto	
	Jawai	Not received	ditto	114.71	11th Dec. 1870.	From 21st June.
	Norlong	ditto	ditto	78.60	30th Oct. 1870.	
	Tezpur	Nil	ditto	40.02	18th Dec. 1870.	
	Dholebagah	0.08	ditto	89.55	ditto	
	Burpetlah	Nil	ditto	60.66	ditto	From 1st July.
	Serhaungor	0.08	ditto	91.43	ditto	
	Debraughur	Nil	ditto	126.37	ditto	
	Sudhya	Not received	ditto	74.97	4th Dec. 1870.	From 20th June.
	Bamaguetting	ditto	ditto	58.60	11th Dec. 1870.	
	Dacca { Telegraph Office	ditto	ditto	76.20	4th Dec. 1870.	
	Jail	Nil	ditto	61.45	18th Dec. 1870.	
	Hymenning	ditto	Nil	75.73	23th Dec. 1870.	
	Jamulpore	Not received	Not received	71.40	20th Nov. 1870.	From 20th June.
EASTERN.	Atanah	Nil	ditto	54.99	18th Dec. 1870.	From 11th July.
	Kishongunge	ditto	Nil	51.67	25th Dec. 1870.	From 1st July.
	Sylhet	Not received	Not received	181.71	11th Dec. 1870.	
	Cachar	Nil	ditto	107.25	18th Dec. 1870.	
	Amakhal Hyakandy	Not received	ditto	107.77	20th Nov. 1870.	
	Tipterah	Nil	Nil	73.07	25th Dec. 1870.	
	Brahmanbariah	ditto	Not received	41.44	18th Dec. 1870.	From 11th July, and not received 7th to 13th Nov.
	Noakhally	ditto	Nil	100.07	25th Dec. 1870.	
	Chittagong { Telegraph Office	ditto	ditto	93.52	ditto	
	Jail	ditto	Not received	94.14	18th Dec. 1870.	
	Cox's Bazar	Not received	ditto	67.65	9th Oct. 1870.	From 29th July.
	Kaugamata Hill	Nil	ditto	94.67	18th Dec. 1870.	Not received 5th to 11th Dec.
SOUTH-EASTERN.						
	Akyab	ditto	Nil	181.47	25th Dec. 1870.	

HENRY F. BLANFORD,
Meteorological Reporter to the Govt. of Bengal.

CALCUTTA,
The 31st December 1870.

Abstract of Observations as received in the Meteorological Reporter's Office, Calcutta,

DURING THE HALF MONTH 1st TO 15th NOVEMBER 1870.

N. B.—The Barometric data are reduced for temperatures, and not for height above sea level.

STATIONS.	BAROMETER.				THERMOMETER.										HUMIDITY.				RAINFALL.											
	Mean of				Mean of max.	Mean daily range.	Mean of min.	Solar Radiation.				Highest Max.	Absolute range.		Lowest Min.	Mean of				In inches.	No. of days' rain.									
	4 hours.							Max.								4 hours.														
	Mean.	10 hours.	16 hours.	22 hours.				Range.	Max.	Min.	Day.					Min.	Day.	Min.	Day.			Min.	Day.	Min.	Day.	Min.	Day.	Min.	Day.	
Port Blair	29.871	29.872	29.810	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madras	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Vizagapatam	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Almaly	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
False Point	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cuttack	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Seoagar Island	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chittagong	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Canton	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dacca	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cochin	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bombay	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Calcutta	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Baranpore	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Patna	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Benares	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Allahabad	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Meerut	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Delhi	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jaipur	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Udaipur	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Surat	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Baroda	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Amreli	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Porbandar	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wardha	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chandrapur	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Amravati	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Shirdi	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lonar	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yashwantrao Chavan	29.841	29.767	29.713	29.690	29.676	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...								

In the above table the following corrections have been made to the constants hitherto used, and should be applied to the elevations and barometric means given in the tables previously published:—

Elevation of Benares barometer station 242.74 feet, instead of 250 feet.
 " of Fatus " 170 " " of 131 "
 " of Roorkee " 87.97 " " of 908 "
 Correction of Haarebaugh barometer + 0.14 "
 " of Benares " - 0.14 "
 " of Roorkee " + 1.43 "

This correction of the Haarebaugh barometer is not the total correction of the instrument, but the difference between that formerly used and that recently determined.

Calcutta,

The 31st December 1870

HENRY F. MANFORD,
Meteorological Reporter to the Govt. of Bengal.

Mean Pressures and Temperatures of the preceding table reduced to sea level, with mean Wind directions.

Stations.	Mean barometric pressure reduced to sea level.	Mean temperature reduced to sea level.	Proportional prevalence Max=100.	Mean direction.
Port Blair	29.999	81.4	86	N 30° E
Madras	29.973	81.4	84	N 68° E
Vinayapattam	29.914	81.4	8	N 34° E
Akyah	29.940	81.0	41	N 10° E
False Point	29.911	78.6	26	N 10° E
Cuttack	29.911	79.3	27	N 44° E
Saugor Island	29.919	79.9	28	N 23° W
Chittagong	29.901	79.3	22	N 80° E
Calcutta	29.885	77.3	07	N 35° E
Jessore	29.812	78.6	16	N 14° W
Dacca	29.806	77.4	23	N 24° W
Cachar	29.741	74.9	20	N 22° W
Hazareebangh	29.725	73.6	78	N 27° W
Berhampore	29.628	73.1	61	N 60° W
Patna	29.600	73.0	53	S 31° W
Monghyr	29.563	74.6	24	S 13° W
Darjeeling	29.598	72.4	74	S 70° E
Gawalparah	29.570	71.0	30	S 34° W
Shillong	29.556	73.1	27	N 33° W
Benares	29.573	70.1	3	S 45° W
Roorkee				

NOTE.

Barometric Pressure.—The pressures in column 2 of the above table for all stations below 500 feet are reduced from those given in column 3 of the table on the previous page by adding the weight of a column of air of the corresponding temperatures given in column 17. For stations of above 500 feet elevation the reduction is made by Dippe's tables as given in Guyot's "Meteorological and Physical Tables."

Temperature.—The temperatures in column 3 are reduced from those in column 17, on the preceding page, by adding 1° Fahr. for every 350 feet.

Wind Direction.—The mean wind direction and its comparative prevalence are calculated from the whole number of wind observations recorded during the half-month. The latter is given as a percentage of the whole number of observations. The mean direction is calculated in the usual way by Lambert's formula.

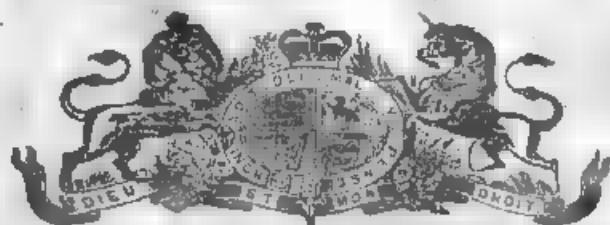
The above being all comparable, afford the data for constructing a meteorological chart for the half-month which shall shew the isobaric and isothermal lines, and the resultant wind directions, which last may be represented by arrows of varying length proportioned to the prevalence of the wind. To these may be added the rainfall from the previous tables.

HENRY F. BLANFORD,

Meteorological Reporter to the Government of Bengal.

The 31st December 1870.

No. 2



of 1871

SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, JANUARY 11, 1871.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT, separately, on payment of six Rupees per annum if delivered in Calcutta, or twelve Rupees if sent by Post.

Meteorological Telegraphic Report for the period 1st to 7th January 1871.

Station.	Date.	Hour.	Barometer reduced to 32°.	Barometer reduced to sea-level.	Thermometer.		Humidity at 50°.	Wind.		Rain.	Clouds.	Weather initials.
					Dry.	Wet.		Direction.	Velocity.			
Calcutta.	Jan.											
	1st	10	29.898	30.017	72.3	64.5	63	W by N	...	...	O	b
	1st	16	29.814	29.882	80.4	64.2	57	W by N	...	...	...	b
	2nd	10	29.018	30.078	75.3	65.5	58	N W	...	...	...	b
	2nd	16	29.828	29.915	80.3	69.0	53	N N W	...	...	...	b
	3rd	10	30.022	30.001	80.0	59.0	49	N	...	...	...	b
	3rd	16	29.945	29.981	72.0	64.0	37	N W	...	...	...	b
	4th	10	30.104	30.123	63.0	55.4	57	N by E	...	...	...	b
	4th	16	30.019	29.974	69.0	57.0	43	N W	...	...	...	b
	5th	10	30.090	30.018	62.5	55.2	61	N N W	...	...	...	b
	5th	16	30.016	29.916	70.0	59.0	48	W N W	...	...	...	b
	6th	10	29.897	30.013	61.0	58.0	57	W N W	...	...	...	b
	6th	16	30.024	29.908	72.5	62.0	56	N	...	...	...	b
	7th	10	29.849	30.074	67.0	62.0	74	N E	...	...	...	b
	7th	16	30.035	29.974	74.5	64.0	53	N W	...	...	...	b
Rangoon Island.	1st	10	30.008	30.014	75	60	72	N N W	40°	...	C	b
	1st	16	29.840	29.983	80	73	61	S S W	50°	...	C	b
	2nd	10	30.022	30.028	76	70	72	N	50°	...	C, CK	b, m
	2nd	16	29.900	29.016	71	60	49	N N E	10.7°	...	...	b, m
	3rd	10	30.001	30.003	68	68	47	N N E	18.0°	...	...	b
	3rd	16	29.916	29.932	75	61	41	N E	14.8°	...	...	b
	4th	10	30.119	30.114	67	57	50	N N E	8.8°	...	...	b, m
	4th	16	30.070	29.976	71	60	40	N	15.6°	...	...	b, m
	5th	10	30.008	30.051	68	50	40	N	10.3°	...	...	b
	5th	16	29.916	29.913	73	50	41	N	16.0°	...	...	b, m
	6th	10	30.032	30.038	68	58	74	N	8.7°	...	C	b, m
	6th	16	29.910	29.914	74	63	51	N	10.0°	...	C	b, m
	7th	10	30.038	30.044	70	64	70	N E	6.8°	...	C	b, m
	7th	16	29.958	29.954	77	66	53	N	9.7°	...	C	b, m
Cuttack.	1st	10	29.907	29.911	72	67	73	E N E	3.0°	...	C	b, m
	1st	16	29.777	29.889	78	69	57	W	8.7°	...	C	b, m
	2nd	10	29.922	30.035	76	68	62	E	3.1°	...	...	b, m
	2nd	16	29.782	29.904	61	60	51	N W	6.5°	...	...	b, m
	3rd	10	29.917	30.055	76	61	51	N	4.0°	...	...	b, m
	3rd	16	29.856	29.949	77	64	45	W N W	8.3°	...	...	b, m
	4th	10	29.988	30.101	67	58	55	N	6.0°	...	...	b, m
	4th	16	29.980	29.992	74	61	43	N W	8.8°	...	...	b, m
	5th	10	29.913	30.024	68	57	54	N	5.0°	...	...	b, m
	5th	16	29.798	29.907	72	60	46	W	7.9°	...	...	b, m
	6th	10	29.903	30.018	65	61	73	N E	5.7°	...	CS	b
	6th	16	29.803	29.921	75	65	55	W	6.1°	...	...	b, m
	7th	10	29.916	30.019	70	63	65	E	6.2°	...	...	b
	7th	16	29.836	29.943	70	64	48	W S W	6.6°	...	...	b, m
Madras.	1st	10	29.971	29.981	63	74	87	N	13°	...	...	b
	1st	16	29.900	29.900	81	73	80	N	12°	...	...	b
	2nd	10	30.111	30.111	81	73	66	N by W	11°	...	...	b
	2nd	16	29.910	29.940	81	72	62	N	9°	...	...	b
	3rd	10	30.046	30.056	84	74	60	N by W	8°	...	...	b
	3rd	16	29.917	29.947	82	72	59	N N E	11°	...	...	b
	4th	10	30.036	30.065	77	72	77	N W by N	5°	...	...	b
	4th	16	29.907	29.927	82	78	63	N W	9°	...	...	b
	5th	10	29.984	29.989	79	78	73	N W by N	7°	...	...	b
	5th	16	29.940	29.989	79	71	65	E S E	9°	...	...	b
	6th	10	29.959	29.989	80	73	74	N N W	8°	...	...	b
	6th	16	29.854	29.944	82	72	50	S W by W	13°	...	...	b
	7th	10	29.998	30.016	68	71	66	N	13°	...	...	b
	7th	16	29.901	29.931	80	70	58	N	11°	...	...	b
Coimbatore.	1st	10	29.982	30.046	71	66	76	N W	...	...	C	Fair.
	1st	16	29.817	29.900	80	60	54	N N W	...	...	...	Fair.
	2nd	10	29.982	30.008	73	64	70	W	...	...	...	Fair.
	2nd	16	29.813	29.886	81	70	55	E	...	...	...	Fair.
	3rd	10	30.007	30.060	76	67	60	N N E	...	...	...	Fair.
	3rd	16	29.876	29.950	79	69	59	N E	...	...	...	Fair.
	4th	10	30.045	30.129	71	68	44	N E	...	...	C, CK	Fair.
	4th	16	29.999	29.983	74	63	47	E	...	...	...	Fair.
	5th	10	29.903	30.040	67	67	60	N E	...	...	C	Fair.
	5th	16	29.872	29.936	73	61	46	E N E	...	...	C, CK	Fair.
	6th	10	29.906	30.040	68	57	40	N E	...	...	C, CK	Fair.
	6th	16	29.855	29.960	71	60	49	N E	...	...	C, CK	Fair.
	7th	10	30.010	30.083	69	60	55	E N E	...	...	C, CK	Fair.
	7th	16	29.889	29.978	74	61	43	N	...	...	C	Fair.
Assam.	1st	10	29.962	29.968	72	86	80	N	3	...	O	b
	1st	16	29.890	29.841	78	69	61	N W	3	...	O	b
	2nd	10	29.941	29.907	73	64	71	S by W	3	...	O	b
	2nd	16	29.863	29.876	78	71	65	N W	3	...	C, CS	b
	3rd	10	29.907	29.913	74	67	67	S by W	3	...	...	b
	3rd	16	29.878	29.888	81	80	95	N W	3	...	C	b
	4th	10	29.907	30.023	70	64	70	N W	3	...	CS	b
	4th	16	29.841	29.874	76	75	95	N W	3	...	...	b
	5th	10	29.945	29.981	67	61	62	N	1	...	C, CS	b
	5th	16	29.831	29.849	76	87	63	N W	9	...	C, CS	b
	6th	10	29.937	29.953	70	64	70	N E	2	...	C, CS	b
	6th	16	29.840	29.871	78	70	63	W	1	...	C, CS	b
	7th	10	29.900	29.906	63	67	67	E N E	7	...	C, CS	b
	7th	16	29.876	29.881	78	70	65	W S W	1	...	C, CS	b

* Velocity of wind in miles per hour.

CALCUTTA,
The 7th January 1871.HENRY P. BLANFORD,
Meteorological Reporter to the Government of Bengal.

Weekly Report of Rainfall compiled at the Meteorological
Reporter's Office.

Circumstances.	Stations.	Rainfall from 19th to 25th Dec. 1870.	Rainfall from 26th to 31st Dec. 1870.	Rain from 1st JANUARY 1871.		REMARKS.
				Inch.	Up to date.	
SOUTH-WESTERN.	Pooree	Nil	Nil	57.34	31st Dec. 1870.	
	False Point	ditto	Not received	64.05	25th Dec. 1870.	
	Telegraph Office	ditto	Nil	60.20	31st Dec. 1870.	
	Cuttack Jail	ditto	Not received	49.90	25th Dec. 1870.	
	Jagpore	Not received	Nil	Nil	31st Dec. 1870.	From 6th December, and not received 19th to 25th Dec.
	Kendraparab	Nil	ditto	ditto	ditto	From 6th Dec.
	Jugustainapore	ditto	ditto	ditto	ditto	From 6th Dec.
	Sambulpore	ditto	ditto	65.83	ditto	From 16th June.
	Bainsore	Not received	ditto	52.63	ditto	Not received 18th to 25th Dec.
	Bludhruck	Nil	ditto	41.11	ditto	From 27th June.
WESTERN.	Kherdab	Not received	Not received	45.00	27th Nov. 1870.	From 27th June.
	Mulnapore	Nil	Nil	42.01	31st Dec. 1870.	Not received 21st to 27th Dec.
	Gurbetta	Not received	Not received	1.70	19th Oct. 1870.	From 20th Sept.
	Tamlouk	Nil	ditto	6.76	25th Dec. 1870.	From 10th October.
	Bancoorah	ditto	Nil	42.20	31st Dec. 1870.	
	Chydassan	ditto	ditto	53.24	ditto	
	Larnia	ditto	ditto	45.77	ditto	
	Bighndipore	Not received	Not received	60.02	27th Oct. 1870.	From 23rd May.
	Palamow	Nil	Nil	62.14	31st Dec. 1870.	From 6th June.
	Hardiwan	ditto	ditto	40.84	ditto	
CENTRAL.	Catwa	ditto	ditto	57.37	ditto	From 4th July.
	Calna	Not received	ditto	34.19	ditto	ditto, and not received 10th to 25th Dec.
	Head-Head	Nil	ditto	55.61	ditto	From 6th July.
	Hanregunge	ditto	ditto	51.13	ditto	
	Suore	ditto	ditto	60.10	ditto	
	Deoghur	ditto	ditto	47.05	ditto	
	Narhee	Not received	Not received	47.75	4th Dec. 1870.	
	Hosarehaugh	ditto	ditto	50.17	18th Dec. 1870.	
	Chakumba	ditto	ditto	50.49	4th Dec. 1870.	From 25th July.
	Ranchre	Nil	ditto	50.84	23th Dec. 1870.	
NORTH-WESTERN.	Sassaram	ditto	ditto	57.22	ditto	From 28th March.
	Samgat Island	ditto	Nil	50.60	31st Dec. 1870.	
	Contia	Not received	Not received	55.50	20th Nov. 1870.	
	Belourta	Nil	Nil	40.00	31st Dec. 1870.	
	Bowrah	Not received	ditto	51.14	ditto	Not received 10th to 25th Dec.
	Alipore	Nil	ditto	52.28	ditto	From 30th May.
	Bardackpore	ditto	ditto	51.54	ditto	From 16th May.
	Dum Dum	ditto	ditto	30.04	ditto	ditto.
	Barnet	ditto	ditto	42.55	ditto	ditto.
	Natkherah	ditto	ditto	50.00	ditto	ditto.
NORTH-EASTERN.	Hagerhaut	ditto	ditto	57.03	ditto	ditto.
	Manonil Harbour	ditto	ditto	50.04	ditto	ditto.
	Harripore	ditto	ditto	00.21	ditto	ditto.
	Hooghly	ditto	Not received	58.2	27th Dec. 1870.	
	Jessore	ditto	Nil	42.56	31st Dec. 1870.	
	Kishnagar	Not received	ditto	42.36	ditto	From 17th Jan., and not received 10th to 25th Dec.
	Managhat	Nil	ditto	10.62	ditto	From 7th February.
	Bangour	ditto	ditto	40.22	ditto	From 10th January.
	Melhanore	ditto	ditto	42.90	ditto	From 7th February.
	Chondungab	Not received	Not received	47.70	6th Nov. 1870.	ditto.
NORTH-CENTRAL.	Kooshbush	Nil	Nil	65.11	31st Dec. 1870.	
	Barkhampore	ditto	ditto	50.00	ditto	
	Parasulpore	ditto	Not received	50.85	25th Dec. 1870.	
	Dowlat Khan	ditto	Nil	50.29	31st Dec. 1870.	From 9th July, and not recorded 1st to 7th Aug. and 26th Sept. to 2nd Oct.
	Burrikant	ditto	Not received	60.60	25th Dec. 1870.	
	Perazepore	ditto	Nil	35.37	31st Dec. 1870.	From 11th July, and not received 26th Nov. to 11th Dec.
	Madaripore	ditto	ditto	33.11	ditto	From 11th July, and not received 6th to 18th Dec.
	Rhaugulpore	ditto	ditto	40.34	ditto	
	Mudhoypoorah	ditto	ditto	69.40	ditto	From 2nd May.
	Banke	Not received	Not received	48.92	30th Oct. 1870.	From 26th April.
NORTH-EASTERN.	Maughyr	Nil	Nil	70.72	31st Dec. 1870.	
	Jamorie	ditto	Not received	63.31	26th Dec. 1870.	From 25th April.
	Begonari	Not received	ditto	48.27	27th Nov. 1870.	From 10th May.
	Purneah	Nil	Nil	0.20	31st Dec. 1870.	From 26th September.
	Gya	ditto	ditto	39.13	ditto	
	Shorghotty	Not received	Not received	30.81	27th Nov. 1870.	From 13th June.
	Nuwadgh	Nil	Nil	42.18	31st Dec. 1870.	From 20th June.
	Behar	ditto	Not received	41.40	26th Dec. 1870.	From 21st March, and not received 12th to 18th Dec.
	Patna	ditto	Nil	25.70	31st Dec. 1870.	
	Arrangabad	Not received	Not received	20.07	25th Sept. 1870.	From 11th July.
NORTH-EASTERN.	Rhubhuah	ditto	ditto	51.86	18th Dec. 1870.	From 25th September.
	Barh	Nil	ditto	48.04	25th Dec. 1870.	From 18th May.
	Arrah	ditto	Nil	47.27	31st Dec. 1870.	
	Buxar	Not received	Not received	48.30	11th Dec. 1870.	
	Chuprah	Nil	Nil	42.04	31st Dec. 1870.	
	Sowan	ditto	ditto	65.10	ditto	From 2nd May, and not received 12th to 18th Dec.
	Champagan	ditto	Nil	67.01	ditto	
	Renar	ditto	Not received	46.18	25th Dec. 1870.	
	Moufferpore	ditto	Nil	78.10	31st Dec. 1870.	From 1st March, and not received 6th to 11th Dec.
	Darbhanga	ditto	ditto	Nil	ditto	From 31st Oct.
NORTH-EASTERN.	Sectanaroe	Not received	ditto	ditto	ditto	From 14th Nov., and not received 10th to 25th Dec.
	Tajpore	ditto	Not received	ditto	20th Nov. 1870.	From 1st Nov.
NORTH-EASTERN.	Linpore	Nil	Nil	44.67	31st Dec. 1870.	From 14th Feb.

16 SUPPLEMENT TO THE CALCUTTA GAZETTE, JANUARY 11, 1871.

District.	Stations.	Rainfall from 15th to 25th Dec. 1870.	Rainfall from 25th to 31st Dec. 1870.	RAIN FROM 1st JANUARY 1871.		REMARKS.
				Rain.	Up to date.	
		Inch.	Inch.	Inch.		
NORTHERN.	Rampore Beaulah	Nil	Nil	58.25	31st Dec. 1870	
	Natore	ditto	Not received	60.51	25th Dec. 1870	From 2nd May.
	Pabna	ditto	Nil	55.48	31st Dec. 1870	
	Commercelly	ditto	Not received	51.05	25th Dec. 1870	From 15th May.
	Sorajgonj	ditto	ditto	55.44	ditto	
	Mahlab	ditto	Nil	53.55	31st Dec. 1870	
	Rangpur	ditto	ditto	53.50	ditto	
	Dumraon	ditto	ditto	53.50	ditto	
	Rangpur	ditto	ditto	53.50	ditto	
	Jalpaiguri	ditto	ditto	53.50	ditto	
	Falagata	ditto	ditto	15.00	ditto	From 2nd May.
	Bokul	ditto	ditto	90.37	ditto	From 4th July.
	Titalya	ditto	ditto	81.17	ditto	From 27th June.
	Buxa	ditto	Not received	111.47	25th Dec. 1870	From 15th May.
	Rangpur	ditto	Nil	53.50	31st Dec. 1870	
NORTH-EASTERN.	Darjeeling { Telegraph Office	Not received	Not received	107.10	30th Nov. 1870	
	Darjeeling { Jail	ditto	ditto	154.78	15th Nov. 1870	
	Torai	ditto	ditto	125.95	6th Nov. 1870	
	Gawalparab	Nil	Nil	17.87	23rd Oct. 1870	From 10th July.
	Dhobroo	Nil	Nil	137.33	31st Dec. 1870	
	Cowinty	Not received	Not received	100.43	20th Nov. 1870	From 30th May.
	Tora (Duro Hills)	Nil	ditto	68.68	25th Dec. 1870	
	Shilong	ditto	ditto	121.33	ditto	From 15th June.
	Jowai	ditto	ditto	71.14	ditto	
	Noongang	Not received	ditto	113.74	ditto	From 21st June, and not received 12th to 18th Dec.
	Teapora	Nil	ditto	78.50	10th Oct. 1870	
	Mohelangan	ditto	ditto	84.02	25th Dec. 1870	
	Hupetah	Not received	ditto	87.68	ditto	
	Neobangor	Nil	ditto	60.46	15th Dec. 1870	From 1st July.
	Debronghur	ditto	ditto	81.43	25th Dec. 1870	
SOUTHERN.	Suddys	Not received	ditto	126.37	ditto	
	Samoogooding	Nil	ditto	70.05	18th Dec. 1870	From 20th June, and not received 5th to 17th Dec.
	Pacca { Telegraph Office	Not received	ditto	88.50	25th Dec. 1870	
	Pacca { Jail	Nil	ditto	75.20	4th Dec. 1870	
	Mymensing	ditto	Nil	81.45	31st Dec. 1870	
	Jamulpore	ditto	ditto	78.73	ditto	
	Attah	Not received	Not received	71.40	20th Nov. 1870	From 20th June.
	Kisharganga	Nil	Nil	54.00	31st Dec. 1870	From 11th July.
	Sylhet	ditto	ditto	51.07	ditto	From 1st July.
	Cachar	Not received	ditto	131.74	ditto	Not received 12th to 25th Dec.
	Assakhal Hylakandy	Nil	ditto	107.25	ditto	
	Tipperah	Not received	Not received	100.77	20th Nov. 1870	
	Brahmanbariah	Nil	Nil	71.07	31st Dec. 1870	
	Noakhally	ditto	ditto	41.44	ditto	From 11th July.
	Chittagong { Telegraph Office	ditto	ditto	100.87	ditto	
SOUTHERN-EASTERN.	Chittagong { Jail	ditto	ditto	93.53	ditto	
	Cox's Bazar	ditto	ditto	95.15	ditto	
	Rangamatta Hill	Not received	Not received	57.00	24th Oct. 1870	From 20th July.
		ditto	ditto	94.67	12th Dec. 1870	Not received 5th to 11th Dec.
	Akyab	Nil	Nil	181.47	31st Dec. 1870	

CALCUTTA,
The 7th January 1871.

HENRY P. BLANFORD,
Meteorological Reporter to the Govt. of Bengal.

GOVERNMENT OF BENGAL,

PUBLIC WORKS DEPARTMENT.

Irrigation Branch.

Irrigation Operations of Lower Bengal from January to March 1869-70.

Circle.	Canal.	WATER SUPPLY DURING 1870-71.				APPROXIMATE AREA IRRIGATED DURING 1870-71.				RAIS-PAIL.				NAVIGATION RETURN.				CROPS IRRIGATED.		REMARKS.	
		Full supply depth.	Half supply depth.	Average depth throughout the month.	Area actually irrigated during the month.	Area actually irrigated during the month.	Area actually irrigated during the month.	Area actually irrigated during the month.	Total of Cultivable area for the month.	Inches during the month.	Inches up to date of the year 1870-71.	Average of ten previous years for the same period.	Number of Boats.	Approximate value of Goods.	Approximate value of Boats.	Per Column 2.	Per Column 3.				
Orissa	Kendrapara	7	1,200	475	687 1/2	Cuttack	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Talunda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	High Level	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Midnapore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Paschikoorab	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Paschikoorab	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Orissa	Kendrapara	7	1,200	475	687 1/2	Cuttack	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Talunda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	High Level	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Midnapore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Paschikoorab	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Paschikoorab	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Orissa	Kendrapara	7	1,200	475	687 1/2	Cuttack	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Talunda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	High Level	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Midnapore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Paschikoorab	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Paschikoorab	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

T. M. KIRKWOOD, C. S.,

Canal Revenue Supdt., Bengal.

GOVERNMENT OF BENGAL,

PUBLIC WORKS DEPARTMENT,

Irrigation Branch.

Irrigation Operations of Lower Bengal from April to August 1870-71.

Circle.	Canal.	WATER SUPPLIED DURING 1870-71.				APPROXIMATE AREA IRRIGATED DURING 1870-71.				RAINFALL.				NAVIGATION REVENUE.				CHIEF EXPORTS.		REMARKS.		
		Full supply days.	Estimated full supply charge in cubic feet per acre.	Average depth throughout the month.	Average discharge in cubic feet per second throughout the month.	Area actually irrigated during the month in acres.	(1) Cultivated area in acres.	(2) Uncultivated area in acres.	Total of columns 8, 9, and 10.	Inches during the month.	Inches up to date during the year 1870-71.	Average of less than one inch per year.	Measure of Traffic.	Number of boats.	Tonnage.	Approximate value of goods.	Per Column 8.	Per Column 9.				
Orissa	High Level	8	675	4.83	311	15	15	...	15	1.23	1.23	...	Local Govt. Stores	9	31	50	Cotton 15	19	20	Escape 75 c. ft. per acre.		
	Kendrapara	7	1,200	4.80	698,337	331	331	...	331	1.23	1.23	...	Local Govt. Stores	83	385	31,411	Rice 53		Canal closed 15 June for repairs.	
	Taldanda	7	1,300	6.3	126,81	1.23	1.23	...	Local Govt. Stores	238	2,054	2,42,359	Cotton 751			Canal closed.
	Midnapore	8	875	No observations	...	35	35	...	35	1.23	1.23	...	Local Govt. Stores	12	116	2,478	Miscellaneous 67	...	...	
S. W. Circle	Paschikoorah	8	240	Ditto	...	...	...	...	...	1.23	1.23	...	Local Govt. Stores	40	1,400	17,159	Rice 35	...	...	Canal closed from 18th.
	High Level (25 days)	9	675	4.8	109	47	47	...	47	1.85	3.06	...	Local Govt. Stores	14	43	...	Rice 42		70 c. ft. per acre.	
	Kendrapara (25 days)	7	1,200	4.70	873,993	2,151	2,151	...	2,151	1.85	8.09	...	Local Govt. Stores	48	1,600	20,304	Cotton 15			Canal closed 15 June for repairs.
	Taldanda	7	1,300	6.3	156,81	1.85	3.06	...	Local Govt. Stores	23	224	2,478	Rice 25	...	...				Canal closed.
S. W. Circle	Midnapore	8	875	No observations	...	25	25	...	25	5.45	6.75	...	Local Govt. Stores	1,134	8,306	10,50,770	Rice 341	...	...	Canal closed from 18th.
	Paschikoorah	8	240	Ditto	1.40	4.44	...	Local Govt. Stores	72	1,233	1,17,043	Cotton 15		Canal closed 15 June for repairs.	
	High Level (12 days)	9	675	5	160	7.42	10.50	...	Local Govt. Stores	8	20	10	Rice 35			Canal closed.
	Kendrapara (7 days)	7	1,200	4.80	628,511	11	11	...	11	7.42	10.50	...	Local Govt. Stores	83	174	20,180	Rice 13	...	...				Canal closed.
S. W. Circle	Taldanda	7	...	...	...	None	None	...	...	7.42	10.50	...	Local Govt. Stores	41	834	3,00,380	Rice 13	...	...	Canal closed.
	Midnapore (open 20 days)	8	875	4.30	123	10.50	14.90	...	Local Govt. Stores	1,326	8,370	11,50,063	Rice 13		Canal closed.	
	Paschikoorah (open 7 days)	8	240	2.40	23	10.50	14.90	...	Local Govt. Stores	67	1,416	64,370	Rice 13			Canal closed.

Receipt 75 p. d. per month.

Canal closed from 18th.

70 p. d. per second, receipt. Canal closed to June for repairs.

Ditto ditto

Canal closed.

Orissa ...	High Level ...	Days ...	675	473	276	Cuttack ...	238	333	67	530	733	1733	1579	Local Govt. Stores	130	2,306	Rice 333	Rice 333	Escape 127 c. ft. per second.
Kendrapara ...	Kendrapara ...	7	1,300	430	339-621	Ditto	1,353	306	3,161	2,346	733	1733	1579	Local Govt. Stores	23	10,000	Rice 173	Rice 173	Rain-fall at Kendrapara in July 1870: Escape 120 c. ft. per second.
Talanda ...	Talanda ...	8	1,300	Canal opened on 21st		Ditto	...	None	...	...	733	1733	1579	Local Govt. Stores	4	1,471	Rice 173	Rice 173	• Much of this, previously irrigated for cotton crop.
Midnapore ...	Midnapore ...	8	875	535	424-94	Midnapore	24,804	14,011	10,688	21,804	530	1005	1943	Local Govt. Stores	10	1,412	Rice 173	Rice 173	Escape 75 n. ft. per second.
Panchkoora ...	Panchkoora ...	8	240	417	31-91	Howrah	208	208	...	208	1038	2589	1943	Local Govt. Stores	2,214	11,925	Rice 173	Rice 173	No escape over tail.
High Level ...	High Level ...	8	875	675	675	Cuttack	21,865	21,865	389	22,035	1001	2794	4067	Local Govt. Stores	50	1,095	Rice 173	Rice 173	Escape 65 c. ft. per second.
Kendrapara ...	Kendrapara ...	7	1,300	428	624-413	Ditto	40,000	38,000	3,300	46,300	1001	2794	4067	Local Govt. Stores	31	1,095	Rice 173	Rice 173	Escape 120 c. ft. for 154 days.
Talanda ...	Talanda ...	8	1,300	725	138-21	Ditto	8,000	8,000	...	8,000	1001	2794	4067	Local Govt. Stores	137	1,435	Rice 173	Rice 173	Escape 120 c. ft. for 154 days.
Midnapore ...	Midnapore ...	8	875	472	171-7	Midnapore	3,741	3,130	36,904	28,764	1156	2685	...	Local Govt. Stores	136	2,706	Rice 173	Rice 173	Escape 140 c. ft. for 154 days.
Panchkoora ...	Panchkoora ...	8	140	430	42-44	Howrah	300	252	308	500	1370	3908	3124	Local Govt. Stores	1,032	11,806	Rice 173	Rice 173	

* This rainfall is given for Cuttack Town.
 Other Observations in District—
 Kendrapara Canal.—Banspore... 10.50
 High Level Canal.—Jonsapora... 30.93
 Talanda Canal.—Talanda... 7.45
 Midnapore... 4.40

T. M. KIRKWOOD, C. S.,
 Canal Revenue Supdt., Bengal.

**GOVERNMENT OF BENGAL,
PUBLIC WORKS DEPARTMENT,
Irrigation Branch.**

Irrigation operations of Lower Bengal for the month of September 1870-71.

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		Circle.	Canal.	Water supplied during 1870-71.					Approximate area irrigated during 1870-71.			Area actually receiving water during month in question.			Of which B area received water for first time during current year.			Total of column B. for all previous years for the same period.			Locks during the month.			Tons up to date during the year 1870-71.			Average of ten previous years for the same period.			Nature of Traffic.			Number of Boats.			Approximate value of Goods.			Per column B.			Per column B.			Remarks.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Results of the Meteorological Observations taken at the Surveyor-General's Office, Calcutta, from 1st to 7th January 1871.

Month.	Date.	Mean reduced barometer.	THERMOMETER.			Mean dry bulb.	Mean wet bulb.	Computed mean dew-point.	Mean degree of humidity.	WIND.			Rain.	GENERAL REMARKS.
			Highest reading.	Lowest reading.	Max. solar radiation.					Prevailing direction.	Max. force.	Daily velocity.		
Jan.	1st	29.907	81.6	63.5	135.9	71.5	66.0	69.8	0.88	W by N	...	100.6	...	Clear and mirri. Slightly foggy at midnight and 1 a.m. and 8 p.m.
	2nd	29.934	81.3	66.4	136.0	72.9	66.8	61.0	.88	W by W & W N W	...	143.6	...	Clear. Slightly foggy from 7 to 10 p.m.
	3rd	29.964	78.7	60.5	129.8	67.1	69.0	62.5	.62	N W, N & N N W	...	185.0	...	Clear and calm. Slightly foggy from 7 to 11 p.m.
	4th	30.000	70.0	58.0	129.5	62.3	65.3	60.1	.66	N N W & N W	...	158.0	...	Clear. Foggy at midnight & 1 a.m. and from 8 to 11 p.m.
	5th	29.968	70.8	44.0	126.5	61.7	66.0	60.9	.70	N W & W N W	...	159.4	...	Foggy. Foggy at midnight and 1 a.m. and from 8 to 11 p.m.
	6th	29.954	78.5	60.5	128.0	68.9	68.6	63.8	.71	W N W & N	...	143.6	...	Clear & cirri. Slightly foggy at midnight.
	7th	29.955	75.2	58.0	128.8	66.7	60.7	66.7	.74	N by E & N W	...	126.9	...	Clear, cirri and cirro cumuli. Foggy from 9 to 11 p.m.

The mean barometer, as likewise the dry and wet bulb thermometer means, are derived from the twenty-four hourly observations made during the day.

The dew-point is computed with the Greenwich constants.—The figures in column 10 represent the humidity of the air, the complete saturation of which being taken at unity.—The receiver of the lower rain gauge is 1½ feet, and that of the anemometer 70 feet 10 inches, above the level of the ground.—The velocity of wind, as indicated by Robinson's anemometer, is registered from noon to noon.

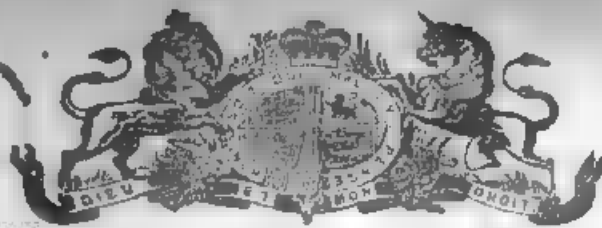
The extreme variation of temperature during the past seven days	...	27.6
The max. temperature during the past seven days	...	81.6
The max. temperature during the corresponding period of the past year	...	82.5
The mean humidity during the past seven days	...	0.68
The mean humidity during the corresponding period of the past year	...	0.63
		Inches.
The total fall of rain from 1st to 7th	{ by lower rain gauge	Nil
	{ by anemometer gauge	Nil
Ditto ditto, average of 17 previous years	...	Nil
Ditto between the 1st January and the 7th January	...	Nil
Ditto ditto ditto, average of 17 years	...	Nil

GOPENATH SEN,
In charge of the Observatory.

The 9th January 1871.

No. 3

of 1871



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, JANUARY 18, 1871.

OFFICIAL PAPERS.

Non-subscribers to the GAZETTE may receive the SUPPLEMENT, separately, on payment of 12 Rupees per annum if delivered in Calcutta, or twelve Rupees if sent by Post.

Proceedings of the Council of the Lieutenant-Governor of Bengal for the purpose of making Laws and Regulations.

Saturday, the 7th January 1871.

Present:

HIS HONOR THE LIEUTENANT-GOVERNOR OF BENGAL, *presiding.*

T. H. COWIE, Esq., *Advocate-General,*
THE HON'BLE ASHLEY EDEN,
A. MONTEY, Esq., C.B.,
A. R. THOMPSON, Esq.,
V. H. SCHALCH, Esq.,

F. F. WYMAN, Esq.,
BAROO JOTENDRO MOHUN TAGORE,
T. H. WORDIE, Esq.,

AND

MOULVI ABDOL LUTHEF KHAN BARADOOR, BAROO DIGUMDER MITTER.

REGULATION OF LODGING-HOUSES AT POOREE.

THE HON'BLE ASHLEY EDEN moved for leave to bring in a Bill for the better regulation of lodging-houses at Pooree. He said that it would be in the recollection of some of the members of the Council that a somewhat similar measure was introduced in 1867 and was subsequently withdrawn. He was not in the Council at the time the Bill was withdrawn, and he had no distinct knowledge of the causes which led to the abandonment of the Bill. As far as he could gather from the proceedings of the Council there were two grounds for the course adopted: one was in consequence of its having been stated by the hon'ble member on his left (Mr. Schalch), as the result of his experience, that the lodging-houses at Pooree were not in such a state as to require a special law for their regulation. The hon'ble member, he observed, had said—

"He found that pilgrims were in the habit of putting up in well-known places, which seemed to be in a very fair condition, and were not under ordinary circumstances overcrowded: but when festivals occurred, not only those lodging-houses, but every house in the town, afforded accommodation for one or more persons, according to their means, and the great mass that flocked in; and the temples and other buildings were also crowded. The general opinion at Pooree seemed to be that there was no necessity for an Act of this nature to go into the details of the management of a lodging-house, but all that was necessary was to give magistrates power to prevent overcrowding, and the powers now possessed by the magistrate would be sufficient to provide for all measures necessary for purposes of convenience."

The second reason was that urged by the Advocate-General, who was then in charge of the Bill; that the Bill, as originally introduced, had been so emasculated by the select committee that it was considered to be of no use, and there was very little in it which was not already contained in the provisions of the District Municipal Improvement Act: and the Bill was therefore withdrawn on the ground that it was just as easy to extend the provisions of that Act to the town of Pooree. Both of those grounds were, however, found to be untenable, for it was found not possible to extend the provisions of the Municipal Act to Pooree; and even if extended, it would not have the effect that was desired. Moreover, the description of the state of the lodging-houses at Pooree given by the hon'ble member was found not to be perfectly correct. He was clearly shown by the descriptions given in the special reports made by Drs. Mount, Smith, and Stewart. The reports were not very pleasant reading; but for the

information of the Council, and as there clearly was some misapprehension on the subject, he would read a few extracts. Dr. Smith had spoken in his diary of Bullia Gooro's house being the best lodging-house in Pooree. He would now read what Dr. Stewart noticed in his description of the same house in his diary kept during the late cholera visitation at Pooree:—

"On the 15th inspected Bullia Gooro's lodging-house (which was spoken of by Dr. Smith as the model lodging-house), as also an adjacent one kept by a female named Phulzered. One death from cholera occurred there to-day, in a pilgrim who was here three days. I measured the room, it was 15 feet by 12, had only one door; there were 11 beds in it; other rooms were quite full, and the people very much crowded. A strong urinous and faecal odour prevailed throughout; the atmosphere was oppressive and stifling."

"In the evening I went with the constable Muddoo Sing to inspect the place where another case of cholera was reported. It was in Bullia Gooro's lodging-house; the entrance hall was thronged with people; I was told that pilgrims occupy every square inch of the ground, and at night there is no moving room. A strong urinous odour prevailed in the centre enclosure. In the back ground people defecated freely, and all the rubbish of the house lay heaped in corners unremoved."

"There was one room in this lodging-house (Phulzered's) which is deserving of mention. Inside a person could hardly stand erect; the breadth was not over 8 feet; the length was filled up by a row of beds; the door was equal in size to the panel of an ordinary door; one could only creep in; it was 1½ by 1½ feet."

"Found that the backyard of this and other houses, lodging-houses (which I inspected), were freely used as privies, and that no attempt was made to remove the soil. Rubbish of all kinds filled the courtyards, the rooms were unwept, and a sickening odour prevailed in all."

"Visited several muts; found them, as usual, very filthy; the backyards of all were covered with filth; some of the privies were the greatest abomination I ever saw; both urine and excreta were in every stage of decomposition."

"There were two wells in the house from which water is drawn for domestic use. There is also a very noxious tank close by, close to the well that I saw, about twelve feet from it, and on a lower level than the grounds surrounded. The well was a hole containing water, washings of a takoor; this hole was never cleaned; water sinks readily in the soil; the little stagnant water in it was loaded with rubbish and swimming with worms. The water of the well was drunk by Khetter Mohun and others. Native doctor Puckoon Sing saw this well with me."

"From this place I went to the police station, and then to Bullia Gooro's lodging-house. Soon a woman down with cholera (a Bengalee pilgrim), attacked this day, 22nd June. Pilgrims were pretty full in the place. Went to the backyard; seen as follows:—a well with privy enclosure 12 feet from it; the privy is on higher ground than the platform of the well; round about this platform of stone were excavations in the earth, which were deep urinals; the urine was unmistakable both in appearance and odour, and no one could gainsay that the state of affairs was as bad as could possibly be. Filth and seculence were abundant about, for the backyard was quite a promiscuous privy. The soil, if removed at all, was gathered only to be buried in the place. It was said that the waters of this well were not drunk; this, however, I doubt very much. I was shown a well in an enclosure on the other side; the enclosure was surrounded by rooms for pilgrims, and it seemed as if this well was intended for them, and the well above alluded to for the pilgrims of that side of the house. However, this well is only separated by a wall from the filth of the yard behind, and there is a drain leading from it, which gave tokens of being used as an urinal."

"I visited the lodging-houses on the 27th instant, and found the usual over-crowding; the privy was covered with filth; cholera stools were apparent; among others two of the above patients were in the house, the rest were in hospital. A large well, about 50 yards from the house, was the one the pilgrims said they got water from, but used, they said, only for washing dishes, &c. The Nurindro water, they said, was what they drank. When I saw the well there were numbers drawing, they said for drinking purposes. It was without coping, and but slightly raised from the street; dust can freely blow into it. The streets are very narrow, scarcely four feet wide in some places; the houses on each side are raised on high plinths; the backyards and privies are on the same high level; the soil is loose black, permitting free soakage."

Dr. Smith describes the houses at Pooree as follows:—

"The houses are very faulty in a sanitary point of view. As a rule, each house is considerably raised on a masonry plinth from three to six or eight feet in height. Through this plinth runs a small circular masonry gutter, which communicates with the rooms in the interior of the house, and through the gutter passes fluid refuse and urine from the interior. Nothing can be more objectionable than this, and yet this system obtains in the case of every house in Pooree."

Noxious ooze is continually trickling from the opening in every plinth, down its front, to a sink or cesspit below. A more dirty or inefficient plan of sewerage or drainage, or whatever it be called, could not be imagined. Sometimes even within the plinth itself a dark, deep, open cesspool exists, a receptacle of indecipherable abominations; and yet there are thousands of these in Pooree for ever evolving deleterious gases. In the front of each house is a small verandah, immediately below the floor of which is the gutter already described, the effluvia from which consequently emanate within two or three feet of those who sit in the verandah,—an ever present source of danger to health. The interior of each house consists, as a rule, of two or three small rooms, leading one from the other, leaped with mud, and without any windows or roof ventilation. In these rooms pilgrims are crowded, until not an inch of space is left uncovered. The massing of human beings is something horrible; it exactly reminds one of sheep in a pen. It appeared to me almost wonderful that human beings could exist under such circumstances, the conditions being truly poisonous in character. Each room so-called may be described as a badly lighted den, in which ventilation is not only deficient, but altogether wanting; where the atmosphere is warm, close, stifling, and sickening, and where human beings are crowded together in excess, being in direct contravention of every known law of health. What organic poisons may not be lurking in those loathsome places! What more favorable seed-plot could be devised for the generation of specific disease?"

Dr. Mouat's description was in similar terms:—

"In the lodging-houses they are crowded to such an extent, that I was shown one apartment, in the best pilgrim hotel of the place, in which eighty persons were said to have passed the night. It was 18 feet long,

10 feet 5 inches broad, with side walls six feet and a half in height, and a low pent roof over it. It had but one entrance, and no escape for the effete air. It was dark, dirty, and dismal when quite empty, and must have been a pest-house during the festival. In this house, in a similar room, occurred the first case of cholera of the late outbreak. If this be the normal state of the best lodging-house in the broad main street of Pooree, it is not difficult to imagine the condition of the worst, in the narrow, confined, undrained, back-alams of the town, for there are lower depths even in this abode of filth and corruption."

[To this passage the following foot-note is attached:—"This statement seemed to be so incredible, that the matter was subjected to direct experiments in the Alipore Jail, where it was found that 90 natives of average size could squat in a cell 10 feet square, and 120 could stand in the same space."]

The district superintendent of police also states:—

"I went into a house in the town this afternoon; about 45 pilgrims were putting up, men and women. The place had only two doors, no windows (one of the doors was locked). This place measured 12 by 20 feet, certainly not more; and in this place no less than 45 persons were crammed. The stench was overpowering, and the heat like an oven; no wonder the people were attacked with cholera; and unless some law is passed to prevent these pundahs overcrowding their houses with pilgrims, not only cholera, but other diseases, are sure to be generated."

Those were the opinions of three medical men describing the state of things since the former Bill was withdrawn. The subject was very carefully considered by Mr. Ravenshaw, the commissioner of the Orissa division, and he very strongly insisted on some measure being passed. The Bill before the Council had been prepared by Dr. Smith and Mr. Ravenshaw in consultation, and he thought that the object in view would be attained by it. He did not know that there was any necessity to go into the details of the Bill, which would be printed and circulated. He thought that the extracts quoted showed that the Bill was prematurely withdrawn on the previous occasion on the mistaken supposition that there was no great evil to be dealt with in regard to these lodging-houses.

MR. SCHALCH said the hon'ble mover of the Bill had referred to him as to the remarks made by him on a previous occasion when the former Bill was under consideration. He had no very clear recollection of the state of things in the lodging-houses of Pooree. He remembered that he went over a great portion of the town with the magistrate of Pooree. It was in the year of the famine, and very probably at that season of the year the number of pilgrims was very much less than ordinarily. His impression was that, after consultation with the magistrate, he considered that although the houses might not approach that state of sanitation which a sanitary officer might deem necessary, yet, taking them in connection and comparison with the general mode of life of the natives, there was no reason to seek for greater powers of interference than the magistrate could himself exercise for carrying out all necessary precautions. Certainly the extracts which had been read did show a state of things which required correction; and very possibly, since the time to which he had referred, it might be that the number of pilgrims had increased, and better accommodation was now required for them. Under these circumstances he had no wish to object to the introduction of the Bill; he thought, however, that the committee should carefully see that interference was not exercised to a greater extent than was actually required.

The motion was then agreed to.

EMBANKMENTS AND DRAINAGE.

MR. SCHALCH moved that the Bill to provide for embankments and drainage be read in Council. In doing so he said that on a former occasion—in fact at the last meeting of the Council—when he moved for leave to introduce this Bill, he explained the circumstances which gave rise to its introduction, and the objects sought to be attained by the measure. He would now, with the permission of the Council, briefly refer to the details of the Bill; and in doing so he proposed not to take up the time of the council by referring to those portions of the Bill which merely re-enacted the existing law, but would draw attention to those parts of the measure which were entirely new in principle, or which contained alterations or modifications to a considerable degree; and it would be the easier for hon'ble members to follow him, because such portions only had been printed in *italics*, while the rest of the Bill, which merely re-enacted the existing law, was printed in the ordinary character.

The first point to which he would draw the attention of the Council was the definition of the word "embankment" as given in the 2nd section. It now included not only those works which naturally fell under the definition of an embankment, but also other works, such as dams, dykes, walls, groynes, and spurs, which were required or made for the protection of embankments, or of any land from erosion or overflow of rivers, tides, or waters. It had been found that these subsidiary works were so inherent a part of embankments themselves that it was necessary that the embankment officer should have the same control over them that he had over the embankments themselves.

The next section to which he would allude was the 7th, which would enable the engineer to construct new embankments where they were necessary for the protection of the country, and to dig out new channels for drainage. Hitherto the engineer had only power over existing embankments, but it had been thought advisable to give him similar powers over the drainage of the country. It had been found absolutely necessary that the powers now given should be exercised, though it would be under the same safeguards and after the same inquiries which applied to the powers exercised by embankment officers under the existing law.

In the 18th section there was a very important alteration. He mentioned on the former occasion how, under certain circumstances, it was found that very great loss and danger were incurred by having to follow the forms of procedure laid down by the present Act before the embankment officer could take action in certain cases when immediate loss to life or property was imminent. It was now proposed to grant him power to take immediate action in such cases, subject to certain restrictions. If it be found afterwards, on inquiry being made, that the causes which led to such action being taken were not sufficient, or rather that the works executed were not required, provision was made whereby the former state of things should be restored at the expense of Government. This provision would compel embankment officers to exercise great care in putting these powers into force, for Government would hold them responsible if these powers were exercised without sufficient cause. At the same time a further provision was introduced whereby, in consequence of these works, which were executed for the benefit of the general community, causing loss or injury to private individuals, compensation would be made for such individual loss.

Sections 16 to 22 were of a totally new character. They referred to the drainage of the country, and empowered engineers to call upon the proprietors of lands to keep clear the drainage of their lands. It had been found that the absence of such a provision in the existing law had led to great difficulties, and it was to be hoped that by some provision of this sort means would be taken at a comparatively small cost to remove obstruction to the drainage of the country, which, in the opinion of many persons well able to form an opinion on the subject, had been held to be one of the causes of the severe illness of an epidemic nature which prevailed in the districts bordering Calcutta. No doubt there would be cases in which the measures which could be taken under the provisions of these sections for carrying out such improvements would not suffice to effect a thorough system of drainage, and in such cases it might become necessary to have recourse to the provisions of the other Bill which was introduced by the hon'ble member on his right (Mr. Eden). At the same time it was thought that in a very large number of cases the action taken under these sections would suffice for securing at a trifling cost the thorough drainage of the country in the greater number of instances where obstructions had been created.

In section 27 there was a very important modification of the existing law. By that law the whole cost of the maintenance and repair of an embankment is thrown on the zemindar of the estate on whose lands the embankment lay, utterly regardless of the benefit it might confer on other estates. It frequently happened that an embankment protected not only the estate of the proprietor in whose land it lay, but also largely benefited other estates. But under the existing law the proprietors of these particular estates would escape all payment towards the cost of the maintenance and repair of these works. It was therefore proposed to introduce in this Bill the principle which had been accepted in the Act passed by this Council in 1866. That Act (VII. of 1866) provided for the payment of the cost of land required for embankments, and declared that such costs should be borne by all the proprietors who benefited from the construction of the embankment, in exact proportion to the benefit they derived from its acquisition. It was proposed now to introduce the same principle here, and instead of declaring that the actual owner of the estate on which the embankment stands should bear the whole cost of its maintenance and repair, all estates deriving benefit from the embankment should pay towards such cost in the exact proportion in which they benefited from the embankment. He (Mr. Scholch) thought he need say but little in support of this principle; and in these days, when the local Governments were required to defray by contributions from the general community of their provinces the cost of works of a local nature, it seemed to him that the cost of embankments and all such cognate works should be defrayed by those who alone benefited from their construction, and not by the general public.

Sections 28 to 34 incorporated in this Act the provisions of Act VII. of 1866 for apportioning the cost of land required for the construction of embankments. This had been done in view to bringing the whole subject in one enactment, so that the law might be seen at one view.

Section 35 authorized the infliction of penalties in cases of the unauthorized interference with embankments or drainage works. It had been found that great injury had been done by persons who for their own advantage had injured such works. Thus it often happened that proprietors of estates, rather than incur the expense of making sluices for properly draining their estates, caused breaches to be made, which caused serious injury to the lands of the neighbouring proprietors. But while more stringent punishment was proposed to be enforced for such offences, provision was made for affording greater facilities to proprietors for obtaining the construction of any new embankments or drainage channels.

Part II of the Bill, commencing with section 42, made provision for compensation for losses sustained by the exercise of the powers conferred by this Act, and a subsequent portion of the Part referred to the procedure under which land was to be taken for the purpose of making embankments. A great portion of these provisions was based upon the existing law for the acquisition of land for public purposes contained in Act X. of 1870 of the supreme legislature. He did not quite understand, when the Bill was first placed in his hands, why these provisions were introduced; and here he might observe that when the Bill was entrusted to him, the Bill in its present form was placed in his hands, and although he accepted cordially the general principles of the Bill, he could not hold himself responsible for all its details; and in this

case he was not quite sure whether the provisions of that Act could properly be incorporated in it, nor how far the Council could modify existing Acts of the imperial legislature. But he believed that the reason for introducing those provisions was that that Act made no provision for the acquisition of land on emergencies unless the forms of the Act had been previously gone through. He believed it was intended to provide a mode by which, in cases of emergencies, land could at once be taken up and the question of compensation subsequently determined. The provisions of the existing Act, it was believed, would not apply in all its entirety to the acquisition of land for the purposes of this Bill; and therefore it was thought expedient to modify them so as to meet the peculiar circumstances of the Bill.

Another section to which he would refer was section 84, which was of rather a sweeping nature, and conferred power to levy a fine on a village for injury to works constructed under the Bill where the offender could not be discovered. This section had been introduced at the instance of the Department of Public Works, who, notwithstanding their utmost endeavours, have been frequently unable to discover the offender in cases where severe injury had been done to embankments for the benefit of a village, regardless of the loss or damage which might occur to others. These offences had been committed with impunity, since the whole village combined to screen the offender. He thought it would require rather strong grounds to warrant the enactment of such a provision, and that the section would fairly call for the most careful consideration of the select committee; and even if such a provision were found necessary, he thought it should be confined within the smallest limits necessary to meet the emergency of the case.

With these remarks he begged to move that the Bill be read in Council.

BABOO DROUMBER MITTER said that this was unquestionably a well-considered and a very desirable measure, and he subscribed to every word that had fallen from the hon'ble mover while applying for leave to bring in the Bill; and he readily bore testimony to the fact of many drainage channels having been closed by zemindars, either wantonly or for their own selfish purposes. The Bill, as far as he had been able to judge, had scrupulously respected private rights, while at the same time it had taken every precaution to protect public interests from being jeopardized by the acts of individuals pursuing their own selfish aims. And he entertained great hopes that with certain modifications, which no doubt the Bill would undergo in committee, the present measure, if carried out properly, besides furthering its immediate objects, would in a much greater degree contribute to check the ravages of epidemics, than the one which was avowedly intended for the purpose—he meant the drainage Bill.

The motion was then agreed to and the Bill referred to a select committee, consisting of Mr. Thompson, Mr. Robinson, Baboo Joteendro Mohun Tagore, and the mover Mr. Schaleh.

VILLAGE CHOWKEEDARS.

On the motion of MR. RIVERS THOMPSON the Bill to amend the Village Chowkeedaree Act, 1870, was further considered in order to the settlement of the clauses.

BABOO DROUMBER MITTER moved the introduction of the following section after section 5:—

"In section 21 of the said Act VI. of 1870, the word "quarterly" shall be substituted for the word "monthly;" and in sections 21 and 26 the word "quarter" shall be substituted for the word "month," wherever such word occurs in the said sections; and in section 26 the word "thirty" shall be substituted for the word "seven;" and in Section 26 the word "fortieth" shall be substituted for the word "tenth;" and the said several sections shall be read and construed as if the words hereby directed to be substituted had been originally inserted in the room or the place of the words for which they are hereby respectively directed to be substituted."

He said his object in moving this amendment was simply to afford relief to the tax-payers as well as to the tax-gatherer. Instead of subjecting tax-payers to the annoyance of constant visits from the tax-gatherer, he would provide for quarterly payments, which would not only relieve the villagers, but would very much lighten the work of the tax-gatherer, as well as facilitate the keeping of accounts by the punchayets; and he did not see that it would in any way interfere with the proper working of the law.

THE ADVOCATE-GENERAL said that from such information as he possessed (independently of the practical inconvenience of considering at the last moment important amendments in a Bill which itself had for its object the amendment of a law already passed), he did not know that there was any objection to the alteration proposed, in favor of convenience to the tax-payers and convenience to the collector, of substituting quarterly payments for monthly. But as the whole of the amendments proposed were before the Council in one notice paper, he thought it would be most convenient now that he should point out what appeared to him the practical objection to those portions of the amendments proposed that did not apply specifically to the 21st section of the Village Chowkeedaree Act. As he understood the whole of the proposed amendments of the hon'ble member, he desired that while the instalments of the tax should be paid quarterly in advance, instead of monthly in advance, the period of delay, or days of grace, given under the 25th section of the Act, should be extended from seven to thirty, and that the period after which action might be taken on the part of the punchayet under section 26 should be extended from the tenth to the fortieth day of the quarter. Now he (the Advocate-General) could not see any reason or principle why, if this alteration from monthly to quarterly payments was to be made, any inconvenience would be caused by taking steps for the collection

of the tax within the period now prescribed by the Act; that was to say, within seven days after the instalment became payable; and why, under the 26th section, the punchayet, in the event of non-payment, should not be able to commence action for the enforcement of payment after the tenth day. Irrespective of that, he did not see that there was any material difference between the collection of the tax by monthly and by quarterly payments. Indeed, as regards the number of days of grace given to those amenable to the tax, he had to point out that if the alterations in sections 25 and 26, from seven to ten and from ten to forty, were introduced, the punchayet might be placed in a position of great inconvenience and difficulty. This was one of the instances of the extreme inconveniences to which the Council were put by the practice of introducing important amendments at the last moment. It was not possible to introduce amendments of this kind without very carefully considering how far they affected other provisions of the Bill. Let us compare the 25th and 26th sections, taking the alterations proposed to be made in those sections of substituting thirty for seven and forty for ten, with the 43rd, 44th, and 45th sections of the Act. Under sections 25 and 26, as proposed to be altered, the payers of the tax would have until the thirtieth day of the quarter to pay, and the punchayet could not take any steps whatever to enforce payment till after the fortieth day, and what they could do after the fortieth day would be to publish a list of defaulters, which would necessarily take up some time. If there was any meaning in the publication of this list, it was intended that it should be published for a certain number of days, greater or smaller. Then, under section 27, the collecting member of the punchayet was to issue his warrant for the enforcement of payment to the chowkeedar, and the chowkeedar was to proceed to put it into execution. Under the 44th section the chowkeedar might go before the magistrate on the 15th day of the month following the month for which his salary was due, which, taken in connection with the period of forty days, until the expiration of which the punchayet could not proceed to enforce payment of the tax, would give the punchayet only five days, and sometimes only four, to obtain the necessary funds for the payment of the chowkeedar's salary; and some time should be given between the time when they were authorized to enforce payment of the tax and the day on which the chowkeedar's salary was due, to enable the punchayet to issue a list of defaulters and warrants to the chowkeedar for the levy of the tax. Practically, it would be quite impossible for all that to be carried out within these five days: therefore the punchayet would have no answer to make why they had not taken steps to enforce payment; and, in fact, the only answer they could make was that it was impossible for them to have taken such steps within the time allowed. Therefore, when the Council came to the consideration of the amendments proposed in sections 25 and 26, he would propose that those sections should remain unaltered. In other words, that any person liable to pay should only have seven days within which payment should be made, and that the punchayet should take action immediately after the tenth day; that would give ample time to put them in a position to pay the chowkeedar and protect themselves from the unfortunate position in which they would be put from not being able to collect the tax within sufficient time to realize the amount required.

BABOO DEENDRER MITTAL said that he was quite willing to withdraw such portions of his amendment as might be found to clash with any portion of the Act, or to interfere with its proper working, and only to adhere to the amendment in sections 21 and 26, providing for quarterly instead of monthly payments of the tax. He would, therefore, beg leave to withdraw his former motion, and to substitute the following:—

"In section 21 of the said Act VI. of 1870, the word "quarterly" shall be substituted for the word "monthly;" and in sections 21 and 26 the word "quarter" shall be substituted for the word "month," wherever such word occurs in the said sections; and the said several sections shall be read and construed as if the words hereby directed to be substituted had been originally inserted in place of the words for which they are hereby respectively directed to be substituted."

MR. WYMAN said he thought that the remarks of the learned Advocate-General showed most conclusively the undesirability of introducing into a Bill once passed a new clause affecting more or less sections throughout the Bill. It almost became necessary in such cases to refer the Bill back to a select committee in order that it might be carefully seen that the alteration made in one section did not affect other sections; or, if it did, that those should all be carefully considered in connection with the original amendment. Although, perhaps, the proposition with regard to changing the period of payment from monthly to quarterly intervals was not in itself objectionable, yet, seeing that the principle was involved of the danger of some confusion arising in other sections, he thought it would be better to let the Act stand as it is, and he would therefore oppose the amendment on that ground. Besides, if the rate was made payable in quarterly instalments, it would be difficult for the punchayet to pay the chowkeedar's wages month by month: if the collections were made quarterly, he did not see how payments could be made monthly. On these grounds he would vote against the amendment.

MR. RIVERS THOMPSON said that, considering the opinions that had been expressed by the hon'ble member who had just spoken, he might have expected the hon'ble member to have voted with him at the last meeting of the Council, and allowed the Bill then to pass.

The amendment now under consideration was the amendment proposed in section 21 of the Act, in which the hon'ble member on his right proposed to substitute "quarterly" for

"monthly," so as to secure quarterly payments of the tax in advance. As the member in charge of the Bill, he wished to explain that it was from no want of consideration of the point that the Act provided for monthly instead of quarterly collections of the tax. The Bill originally contained a provision for the payment of the tax by quarterly instalments. When it was referred to the select committee there was a discussion on the question, and, if not unanimously, it was at least by a large majority, agreed that monthly payments should be substituted for the proposed quarterly collections, and the reasons given for the change were that, as the sums were so small, it would tend to regularity of payments, and be rather a convenience that the villagers should have to pay a monthly rate instead of larger sums by quarterly instalments. These considerations led the committee to adopt that view, and the section was so framed by them and passed by the Council without discussion.

Then when the new Bill was introduced to correct certain inconveniences which had arisen from delay in the passing of the Bill, the hon'ble member got up at the moment when the question before the Council was whether the Bill should be passed, and pressed for the introduction of an amendment, not upon the Bill then under consideration, but in the Act which had been passed with the sanction of the Governor General. As the learned Advocate-General had pointed out, the amendment proposed in the 25th and 21st sections would be impracticable without entailing considerable difficulties in the collection of the tax, and as the hon'ble member opposite (Mr. Wyman) had stated, the introduction now of the amendment in the 21st section might possibly affect other sections of the law and create confusion and inconvenience. The particular objection taken by the hon'ble member would perhaps not apply, because the quarterly collections would be paid in advance, and the money for the payment of the chowkedars' wages would be always ready. There was, however, no provision in the Act for the retention or custody of the money that would necessarily always remain in hand if a whole quarter's tax were levied in advance, and in the absence of any security for the proper application of the money, the sum, though small, would still be in the hands of some one, and there was then the risk of speculation and loss. He considered that on the whole it would be advisable to retain the 21st section of Act VI. of 1870 as it stood.

Mr. SCHALCH said as a member of the committee on the former Bill, he might observe that he believed it was then agreed that all payments should be made monthly, and he retained that opinion only till the other day, when he had a conversation on the subject with the Commissioner of the Presidency division, who had taken special interest in the preliminary measures necessary for extending the provisions of the Act to his division. The Commissioner had urged very strongly that in his opinion, as the Act now stood there would be very great harassment to the tax-payers if they were required to pay these small sums monthly; and from the very fact of punchayats being required to keep elaborate accounts, much trouble would be saved by having them kept quarterly instead of monthly. He pressed the subject so very strongly that he (Mr. Schalch) felt inclined to alter his opinion. He certainly felt quite inclined to give his full support to the amendment as far as it was intended to convert monthly into quarterly payments. He thought that the learned Advocate-General had shown that there was a difficulty if the amendment was carried further so as to affect the 25th and 26th sections. He believed that the object of affording a longer period of grace for the payment of quarterly instead of monthly instalments was, because, if the instalments were payable quarterly, the villages would have to pay larger sums than if they had to pay monthly; but, looking to the fact that even the quarterly instalments would not be very heavy, he thought it scarcely necessary that any further period of grace need be allowed, and that the object of the Commissioner would be obtained by confining the amendment to the 21st section, and the substitution of *quarterly* for *monthly* in the 25th section.

So far from this alteration affecting, as the hon'ble member on his left (Mr. Wyman) feared would be the case, the security of the payment to the chowkedars, it would, he (Mr. Schalch) thought, rather advance it: since the punchayet would have in their hands funds sufficient to meet the chowkedars' wages for a quarter instead of for a month. If therefore the amendment were confined to the substitution of a quarterly instead of a monthly payment of the assessment, the object of the hon'ble mover of the amendment would, he thought, be carried out.

The substituted motion was then agreed to.

Mr. RIVERS THOMPSON said that it had been brought to his notice only last week, that in the canal irrigation works in the Cottaick district the irrigation officers had found that they were unable to get any assistance from the village chowkedars. Persons appropriated water without license or payment, and the officers of the department found that they could get no information from the people to enable them to discover the offenders. It was therefore thought that it would be better if power were given to the Government to authorise any officer, besides the police and magisterial authorities, to have the authority of applying to the chowkedar for information and securing their services. He would therefore move the introduction of the following section after the above:—

"In section 39 of the said Act the following clause shall be substituted for clause 6 thereof:—'He shall supply any local information which the magistrate or any officer of police, or any other officer thereunto authorized by an order in writing of the Lieutenant-Governor may require; and the said section shall be read and construed as if the said clause had been originally inserted therein, in place of the clause for which it is hereby directed to be substituted.'"

The motion was agreed to.

On the motion of Mr. Thompson the Bill was then passed.

RECOVERY OF ARREARS OF REVENUE.

On the motion of Mr. Money the report of the select committee on the Bill to amend the procedure for the recovery of arrears of land revenue in respect of tenures not being estates was taken into consideration in order to the settlement of the clauses of the Bill, and the clauses were considered in the form recommended by the committee.

The Bill was settled without amendment; and on the motion of Mr. Money the Bill was then passed.

The Council was adjourned to Saturday, the 14th instant.

Saturday, the 14th January 1871.

Present:

HIS HONOR THE LIEUTENANT-GOVERNOR OF BENGAL *presiding*.

T. H. COWIE, Esq., *Advocate-General*,

THE HON'BLE ASHLEY EDEN,

A. MONET, Esq., C.B.,

A. R. THOMPSON, Esq.,

V. H. SCHALCH, Esq.,

MOULVY ABDOL LUTEEF, KHAN BARADOOR,

T. M. ROBINSON Esq.,

BABOO JOYEENDRO MONUH TAGORE,

T. H. WOODIE, Esq.,

AND

BABOO DIJUMBER MITTER.

REGULATION OF LODGING-HOUSES AT POOREE.

THE HON'BLE ASHLEY EDEN moved that the Bill for the better regulation of lodging-houses at Pooree be read in Council. The Bill had, since the last meeting of the Council, been circulated, and he did not think he need say anything further as to the necessity of the measure. The principle of the Bill was that every lodging-house keeper should have a certificate from the health officer appointed by Government that his house was a fit and proper place for the reception of lodgers, and the certificate should also state the number of lodgers the house was licensed to hold. On receipt of the health officer's certificate, the lodging-house keeper would have to pay a fee of one rupee, and the magistrate would then grant a license for the lodging-house, specifying the number of lodgers the house is licensed to contain, according to the number the house is capable of containing as certified by the health officer; and a fee of eight annas each would be levied on the number of lodgers for which the license was taken out: if the house was licensed to hold ten persons, the fee for the year would be Rs. 5. It was calculated that there would be 3,168 houses taking out certificates, and that each house on the average would take out a license for ten lodgers, for which the keeper would have to pay Rs. 5. The total collections on this calculation would amount to about Rs. 19,000, which, together with fines for breaches of the conditions of licenses, would be a contribution towards a fund which it was intended to raise for the conservancy and improvement of the town, as well as for the raising of sheds for such of the pilgrims as could not be accommodated in the licensed lodging-houses. It was calculated, however, that a much larger sum would be required for sanitary purposes, and this would be but a small contribution towards that object; and it still remained to be considered what other means could be adopted for the purpose. The question of a tax on pilgrims was under the consideration of the Government, and also a proposal was under consideration for receiving for the use of the pilgrims and for their accommodation some portion of the religious endowments which had been originally set aside for them, but which had been perverted to the private uses of the *muthdars* and keepers of shrines. These endowments represented a very considerable sum of money. That was, however, a question that did not arise on this Bill, and he merely mentioned it to show that a large sum was required, and that there was an intention to raise money for this purpose by other means.

As regards the Bill itself, he would point out that there were certain provisions in it relating to the inspection of lodging-houses and the withdrawal of licenses in cases of the breaking out of sickness or disease, or where the lodging-houses were not found fit for the purposes for which they were licensed; and by section 11 the magistrate was empowered to exempt any particular lodging-house from inspection in cases where, from the respectability or otherwise of the occasional lodgers, inspection was not deemed necessary, and where such persons would naturally, from their rank and position, resent the inspectional interference of the medical officers.

Section 13 made it compulsory on the keeper of every lodging-house to report all cases of death, grave accident, or serious illness, and some other kinds of necessary information.

There had been introduced at the end of the Bill certain provisions which were not contained in the draft submitted by the sanitary commissioner and the commissioner of the division: they merely contained sanitary clauses similar to those of some of our municipal Acts, instead of leaving all such matters to be settled by rules to be drawn

up by the magistrate. Those provisions were unobjectionable, and had already been repeatedly introduced in our municipal Acts. He had also, in section 38, provided for the making of bye-laws by the magistrate with the sanction of the health officer. The question had been discussed as to whether there should not be a provision for the appointment of a town committee to whom might be entrusted the duty of carrying out the Act; but after consulting those connected with the town, he had come to the conclusion that it would be difficult to get a committee of sufficient influence and intelligence to work the Act, and it had therefore been determined to confer on the magistrate and health officer the necessary powers.

By section 40 the Lieutenant-Governor had power to extend the Act to other towns in Orissa to which pilgrims resorted. In some of these places the state of things was almost as bad as at Pooree in regard to sanitation, and he believed it was intended to extend the law at once to Jagjipore.

Mr. MONEY said there were one or two remarks that had suggested themselves to him with reference to one portion of the Bill. He observed from a memorandum by the commissioner of the division that the plan for licensing lodging-houses was but a part of a regular scheme for the sanitation of the town of Pooree; and though he thought that the Bill, so far as it went, was one that ought to receive support, he would be glad to have an assurance that another measure, which formed a component part of the scheme sketched out, would also be carried out. The commissioner, after recommending that the proposed measure for the licensing of lodging-houses should be passed, went on, in paragraph 11, to speak of extra accommodation for those pilgrims who could not be accommodated in the licensed lodging-houses; and on looking at a subsequent part of the memorandum, viz. paragraph 17, he found the commissioner speaking as follows of what would be the result of the pressure necessary for the establishment of serais along the road to Pooree:—

"The house-holder and petty shop-keepers in these road-side villages are for the most part poor. They have no capital to build better accommodation, and if they were hard-pressed by local authorities and made conform to the strict rules and regulations of the Serais Act, the probable result would be that they would vacate and leave the village with less actual shelter than it had before."

It appeared to him (Mr. Money) that it was very possible that a result of the same kind would take place in Pooree, and that only a small proportion of the pilgrims would find accommodation in the licensed lodging-houses. The memorandum of the commissioner did not give detailed information of what the number of pilgrims was; but he says—

"There are estimated to be about 6,336 houses in Pooree, and about 25,000 resident inhabitants. The probable average number of pilgrims is estimated to be about 50,000, though I think this is below the mark. We have no recent statistics, but between the years 1816 to 1829 the attendance of pilgrims was between a minimum of 66,000 and a maximum of 1,64,000, or a rough average of 1,25,000."

The commissioner then supposes that one-half of the house-holders would take out licenses for lodging-houses, and that such houses would accommodate an average of ten lodgers to each house. If the figures are reliable, this would give a total of 31,680 pilgrims provided for; whereas it was stated that the average number of pilgrims was 50,000, and that that was a low average. It seemed to him (Mr. Money) therefore that it would be desirable for the Council to know that in connection with this Bill it was intended to provide some accommodation for those pilgrims who would under the operation of this Bill lose a portion of the shelter, however bad it might be, which they now had.

The Hon'ble ASHLEY EDEN said that he believed he had already stated that one of the objects of the Bill was to obtain funds for the purpose of erecting sheds for the accommodation of those pilgrims who could not be accommodated in the lodging-houses licensed under the Bill; and a perusal of the report of the sanitary commissioner would show that one of the chief points of the scheme was to provide proper accommodation, not only at Pooree, but on the road leading to the town. In the memorandum of the commissioner of the division there was a long detailed list of the places at which it was proposed to provide such accommodation. Some of these had indeed already been erected by private munificence, and something had been done during this year to provide accommodation for pilgrims during the festivals.

With reference to the apprehension expressed in regard to the deficiency of accommodation under the Act, it was true that it was stated in the commissioner's memorandum that probably 50,000 was a low average of the number of pilgrims that annually resorted to Pooree, and that the estimate showed that 30,000 only would be provided for in the licensed lodging-houses, yet he (Mr. Eden) thought it was a great mistake to suppose that 50,000 pilgrims congregated at Pooree at one and the same time, and that the requirements for the accommodation should be based on any such calculation. What was meant was that 50,000 pilgrims visited Pooree during the year. Although, no doubt, the greater number of these pilgrims were there during a particular part of the year, there was no reason to suppose that the whole 50,000 were there actually at the same time. There were several religious festivals held at Pooree, and many of the pilgrims only remained for a few days, moving on to other shrines, others taking their place. However, as he said before, it was intended, if possible, by the means to which he had alluded, to provide such accommodation as would be required in addition to the lodging-houses to be licensed under the Bill.

The President said, the fact that the whole number of pilgrims were not present at the same time would be seen if hon'ble members would turn to pages 10 and 11 of the second

Part of this Blue Book (Report of the Sanitary Commissioner for Bengal on the pilgrimages to Juggernath), where it was mentioned that in 1864-65 the attendance at the great festival was 40,000, and in the following year 45,000, that since the number had been decreasing, and that there was a tendency to decrease, and Dr. Smith gave it as his opinion that the annual attendance at Pooree was not more than 50,000.

The motion was then agreed to, and the Bill referred to a Select Committee, consisting of Mr. Schaleh, Baboo Digumbar Mitter, Moulay Abdoel Luteef, and the mover Mr. Eden, with instructions to report within three weeks.

DRAINAGE AND IRRIGATION OF DISTRICTS.

The Hon'ble ASHLEY EDEN moved that the time prescribed for the submission of the report of the Select Committee on the Bill to facilitate the drainage and irrigation of districts in Bengal be extended for three weeks. He said that the period within which the Committee were instructed to submit their report, three weeks, had now expired. On going through the Bill the Committee found great difficulty in settling the working details, and had to recast the Bill and alter its scope so as to make it entirely a local Bill applicable to particular swamps in the Hooghly district. He hoped that the Committee would be able to report within ten days more, and therefore asked for an extension of three weeks.

The motion was agreed to.

The Council was adjourned to Saturday, the 28th instant.

Cattle Disease.

From His Grace THE DUKE OF AROTH, K.T., Her Majesty's Secretary of State for India, to His Excellency the Right Hon'ble the Governor General of India in Council,—
(No. 118, dated India Office, London, the 24th November 1870.)

THE despatches from your Excellency in Council, Nos. 54 and 57, dated the 17th and 20th of May last, with their enclosures, having been transmitted to the veterinary department of Her Majesty's Privy Council, and referred by that department to Professor Simonds, I have to inform your Lordship in Council that, after a very careful consideration of the history, symptoms, and post-mortem appearances of the disease as given by the cattle plague commissioners in India, Professor Simonds states that he is unable to arrive at the conclusion that the disease investigated by them in the Bengal presidency is identical with the cattle plague of Europe.

Meteorological Telegraphic Report for the period 8th to 14th January 1871.

Station.	Date.	Hour.	Barometer reduced to 32°.	Barometer reduced to sea-level.	Thermometer.		Humidity Sat. =100.	Wind.		Rain.	Clouds.	Weather initials.
					Dry.	Wet.		Direction.	Velocity.			
Calcutta.	Jan.											
	8th	10	30.059	30.071	68.5	69.7	79	N W	...	...	C, CS	
		12	30.050	30.062	75.6	61.0	48	W N W	...	...	C, CS	
	9th	10	30.073	30.082	68.2	60.9	64	W N W	...	...	CS	
		12	30.041	30.059	75.0	60.6	60	N W	...	...	C, CS	
	10th	10	30.042	30.060	68.5	59.4	53	N N W	...	...	C, CS	
		12	30.011	30.030	74.7	61.7	44	W N W	...	...	C	
	11th	10	30.011	30.030	68.5	62.0	68	W N W	...	...	...	b
		12	30.018	30.031	74.6	65.3	48	W by N	...	...	...	b
	12th	10	30.042	30.061	70.4	61.4	57	W N W	...	...	C, CS	
		12	30.021	30.042	73.8	61.0	43	W N W	...	...	C, CS	
	13th	10	30.042	30.063	70.4	61.4	57	W N W	...	...	C, CS	
		12	30.040	30.064	75.3	61.2	36	W N W	...	...	...	b
	14th	10	30.072	30.091	68.5	57.1	44	W by N	...	...	...	b
		12	30.047	30.065	76.0	61.0	37	E N E	...	...	...	b
Saugor Island.	8th	10	30.061	30.087	69	63	70	E N E	5.7	...	C	b, m
		12	30.050	30.056	77	65	48	N N E	8.5	...	C	b, m
	9th	10	30.074	30.080	72	63	68	N N E	5.2	...	C	b, m
		12	30.062	30.068	78	63	44	N N E	13.2	...	C	b, m
	10th	10	30.059	30.065	69	61	45	N E	5.4	...	C	b, m
		12	30.018	30.024	78	65	48	N	3.8	...	C	b, m
	11th	10	30.018	30.024	70	68	70	N N W	3.5	...	C	b
		12	30.020	30.026	78	67	60	S S W	7.5	...	C	b
	12th	10	30.081	30.037	73	64	68	N N E	6.7	...	C	b, m
		12	30.033	30.038	75	65	55	N	11.0	...	C	b, m
	13th	10	30.068	30.060	73	63	68	N N W	6.0	...	C	b, m
		12	30.036	30.044	78	63	38	N N W	7.0	...	C	b, m
	14th	10	30.074	30.080	71	64	60	N E	0.4	...	C	b, m
		12	30.030	30.052	77	64	45	N	8.6	...	...	b
Cuttack.	8th	10	30.083	30.087	71	64	60	...	4.4	...	...	b, m
		12	30.033	30.038	81	70	65	N W	7.6	...	...	b
	9th	10	30.033	30.037	71	64	60	N E	4.1	...	...	b, m
		12	30.041	30.048	70	66	47	W	5.5	...	C, K, C	b, m
	10th	10	30.048	30.063	68	63	74	E S E	5.2	...	C, K, C	b, m
		12	30.005	30.005	78	63	44	W N W	6.4	...	C, K, C	b, m
	11th	10	30.016	30.033	68	63	74	N E	5.9	...	C, K, C	b
		12	30.013	30.026	77	66	54	W	0.1	...	C, K	b
	12th	10	30.093	30.007	70	68	75	S E	5.9	...	C, K	b, m
		12	30.031	30.043	79	60	47	N W	8.1	...	C, CS	b
	13th	10	30.038	30.053	68	61	64	E S E	6.8	...	C	b, m
		12	30.051	30.043	80	66	44	N N W	4.8	...	...	b, m
	14th	10	30.035	30.038	69	60	53	E S E	4.5	...	...	b, m
		12	30.016	30.023	81	67	44	N E	9.0	...	...	b
Madras.	8th	10	30.095	30.015	77	71	73	N W	12	...	...	b
		12	30.001	30.021	78	70	65	N by W	13	...	...	b
	9th	10	30.092	30.022	80	71	63	N	15	...	...	b
		12	30.055	30.085	78	70	65	N by W	14	...	...	b
	10th	10	30.069	30.030	79	71	65	N N E	12	...	...	b
		12	30.067	30.087	79	71	65	N by W	14	...	...	b
	11th	10	30.049	30.019	80	72	66	N	10	...	...	b
		12	30.060	30.090	78	71	60	N	10	...	...	b
	12th	10	30.067	30.097	63	73	63	N	11	...	...	b
		12	30.041	30.094	79	72	68	N	14	...	...	b
	13th	10	30.078	30.008	81	73	63	N	11	...	...	b
		12	30.061	30.011	76	71	65	N by E	12	...	...	b
								N	12	...	...	b
										...	...	b
Cuttack.	8th	10	30.005	30.090	68	62	60	N N W	...	...	C, CK	b
		12	30.004	30.087	77	64	48	W N W	...	...	C, CK	b
	9th	10	30.020	30.104	71	63	61	N N E	...	...	C, CK	b
		12	30.001	30.084	78	66	48	N N E	...	...	C, CK	b
	10th	10	30.013	30.097	69	63	70	N N W	...	...	C, CK	b
		12	30.054	30.087	78	64	42	N N E	...	...	C, CK	b
	11th	10	30.070	30.060	68	60	68	W N W	...	...	C	Fair.
		12	30.033	30.015	78	66	60	E	...	...	C	b
	12th	10	30.067	30.051	70	67	...	E S E	...	...	C, CK	b
		12	30.050	30.042	78	66	49	E S E	...	...	C, CK	Fair.
	13th	10	30.067	30.141	70	66	78	N N E	...	...	C	Fair.
		12	30.041	30.024	70	65	63	S E	...	...	C, CK	Fair.
										...	...	Fair.
										...	...	Fair.
Amra.	8th	10	30.007	30.023	70	65	75	E	1	...	CS	b
		12	30.006	30.081	78	70	65	W	1	...	CS	b
	9th	10	30.007	30.013	68	63	78	S W by W	1	...	C, CK	b
		12	30.009	30.094	77	69	64	W S W	1	...	C, CK	b
	10th	10	30.057	30.073	70	65	75	N E	1	...	C, CS	b
		12	30.086	30.001	78	60	61	W	1	...	C, CS	b
	11th	10	30.073	30.089	68	64	79	S W by W	1	...	C, CS	b
		12	30.086	30.081	78	77	95	W	2	...	C, CS	b
	12th	10	30.070	30.086	62	63	65	E S E	1	...	C, CS	b
		12	30.039	30.034	77	76	95	W N W	1	...	C, CS	b
	13th	10	30.087	30.083	78	64	70	N	1	...	...	b
		12	30.081	30.085	80	70	85	N W	1	...	...	b
										...	...	b
										...	...	b

* Velocity of wind in miles per hour.

CALCUTTA,
14th January 1871.HENRY F. BRANFORD,
Meteorological Reporter to the Government of Bengal.

**Weekly Report of Rainfall compiled at the Meteorological
Reporter's Office.**

DIVISION.	Stations.	Rainfall from 1st to 8th Jan. 1871.	RAIN FROM 1ST JANUARY 1871.		REMARKS.
			Rain.	Up to date.	
CUTTACK.	Cuttack { Telegraph Office....	Nil	Nil	8th Jan. 1871.	
	{ Jail....	ditto	ditto	ditto.	
	False Point	ditto	ditto	ditto.	
	Jagipore	Not received	...	...
	Kendraparah	ditto	...	...
	Jagatsingpore	ditto	...	...
	Sambaspore	ditto	...	...
	Bahara	ditto	...	...
	Bhadrach	Nil	Nil	8th Jan. 1871.	
	Boone	ditto	ditto	ditto.	
CHOTA NAGPORE.	Khoordah	Not received	...	...
	Bazarabangh	Nil	Nil	8th Jan. 1871.	
	Bahra	Not received	...	...
	Pachamba	ditto	...	...
	Hanchao	ditto	...	...
	Palanow	ditto	...	...
	Purina	Nil	Nil	8th Jan. 1871.	
	Goldindpore	Not received	...	...
	Chyabana	Nil	Nil	8th Jan. 1871.	
	Patna	ditto	ditto	ditto.	
PATNA.	Behar	Not received	...	...
	Bara	ditto	...	...
	Dinspore	Nil	Nil	8th Jan. 1871.	
	Gra	ditto	ditto	ditto.	
	Sherghatty	Not received	...	...
	Nowadah	Nil	Nil	8th Jan. 1871.	
	Arungabad	Not received	...	...
	Chunpore	ditto	...	...
	Choprah	Nil	Nil	8th Jan. 1871.	
	Bewan	Not received	...	...
BANGALPORE.	Memtarpore	ditto	...	...
	Durbhanga	ditto	...	...
	Sootmaroo	Nil	Nil	8th Jan. 1871.	
	Tajpore	Not received	...	...
	Atrah	Nil	Nil	8th Jan. 1871.	
	Bonar	ditto	ditto	ditto.	Not received 1st January.
	Basarrah	Not received	...	...
	Bhubhuah	ditto	...	...
	Benares	Nil	Nil	8th Jan. 1871.	
	Dhargulpore	Not received	...	...
KANUNGA.	Mudhappoorah	ditto	...	...
	Banka	ditto	...	...
	Monghyr	Nil	Nil	8th Jan. 1871.	
	Jagooie	Not received	...	...
	Bagoonari	ditto	...	...
	Daghar	Nil	Nil	8th Jan. 1871.	
	Parnah	ditto	ditto	ditto.	
	Rampore Benaulah	ditto	ditto	ditto.	
	Natore	Not received	...	...
	Hograh	Nil	Nil	8th Jan. 1871.	
BARDWAN.	Dumraepore	ditto	ditto	ditto.	
	Maldah	ditto	ditto	ditto.	
	Berhampore	ditto	ditto	ditto.	
	Pabna	ditto	ditto	ditto.	
	Commercolly	Not received	...	...
	Serajunga	ditto	...	...
	Bangpore	ditto	...	...
	Titalya	Nil	Nil	8th Jan. 1871.	
	Bardwan	ditto	ditto	ditto.	
	Cutwa	ditto	ditto	ditto.	
PRESIDENCY.	Culina	ditto	ditto	ditto.	
	Bood-Bood	ditto	ditto	ditto.	
	Banourah	Not received	...	...
	Banourah	Nil	Nil	8th Jan. 1871.	
	Soore	ditto	ditto	ditto.	
	Houghly	ditto	ditto	ditto.	
	Howrah	Not received	...	...
	Mahaspore	ditto	...	...
	Contai	Nil	Nil	8th Jan. 1871.	
	Gurbetta	Not received	...	...	Not received 1st January.
PRESIDENCY.	Tamluk	Nil	Nil	8th Jan. 1871.	
	Kishnaghar	ditto	ditto	ditto.	
	Bongong	ditto	ditto	ditto.	
	Banaghal	ditto	ditto	ditto.	
	Nicharpore	Not received	...	...
	Choudanah	ditto	...	...
	Kooblah	Nil	Nil	8th Jan. 1871.	
	Jessore	ditto	ditto	ditto.	
	Saugor Island	ditto	ditto	ditto.	
	Calcutta	ditto	ditto	ditto.	
PRESIDENCY.	Alipore { Jail	ditto	ditto	ditto.	
	{ Dispensary	ditto	ditto	ditto.	
	Barrackpore	ditto	ditto	ditto.	
	Dum Dum	ditto	ditto	ditto.	
	Burnhat	ditto	ditto	ditto.	
	Satpura	ditto	ditto	ditto.	
	Bhowrah	ditto	ditto	ditto.	
	Dum Dum Harbour	ditto	ditto	ditto.	
	Barrackpore	ditto	ditto	ditto.	
	Barrackpore	ditto	ditto	ditto.	

Divisions.	Stations.	Rainfall from 1st to 8th Jan. 1871.	Rain from 1st January 1871.		Remarks.
			Rain.	Up to date.	
NACCA.	Dacca { Telegraph Office ...	Not received	Nil	8th Jan. 1871.	Not received 1st January.
	Dacca { Jail ...	ditto	ditto	ditto	
	Burrisaul ...	Not received	Nil	8th Jan. 1871.	Not received 1st January.
	Dowlat Khan ...	ditto	ditto	ditto	
	Pyroazpore ...	ditto	ditto	ditto	Not received 1st January.
	Madaripore ...	ditto	ditto	ditto	
	Myrmamung ...	ditto	ditto	ditto	Not received 1st January.
	Manalpara ...	Not received	Nil	8th Jan. 1871.	
	Attish ...	ditto	ditto	ditto	Not received 1st January.
	Kabirganj ...	ditto	ditto	ditto	
	Cocher ...	Not received	Nil	8th Jan. 1871.	Not received 1st January.
	Achakhal Hyakandy ...	ditto	ditto	ditto	
CHITTAGONG.	Chittagong { Telegraph Office ...	Nil	Nil	8th Jan. 1871.	Not received 1st January.
	Chittagong { Jail ...	Not received	Nil	8th Jan. 1871.	
	Cox's Bazar ...	ditto	ditto	ditto	Not received 1st January.
	Hangamata Hill ...	ditto	ditto	ditto	
	Nankhally ...	ditto	ditto	ditto	Not received 1st January.
	Tipperah ...	ditto	ditto	ditto	
	Brahmanbariah ...	ditto	ditto	ditto	Not received 1st January.
COOMES BHAIR.	Akyah ...	Nil	Nil	8th Jan. 1871.	
	Baza ...	ditto	ditto	ditto	Not received 1st January.
	Gowalparah ...	Not received	Nil	8th Jan. 1871.	
	Dhobree ...	ditto	ditto	ditto	Not received 1st January.
	Toora (Garo Hills) ...	ditto	ditto	ditto	
	Derjeeling { Telegraph Office ...	ditto	ditto	ditto	Not received 1st January.
	Derjeeling { Jail ...	ditto	ditto	ditto	
	Runghee ...	ditto	ditto	ditto	Not received 1st January.
	Tera ...	ditto	ditto	ditto	
	Falacottah ...	ditto	ditto	ditto	Not received 1st January.
ASSAM.	Jalpaigorie ...	Nil	Nil	8th Jan. 1871.	
	Beda ...	Not received	Nil	8th Jan. 1871.	Not received 1st January.
	Tezpur ...	ditto	ditto	ditto	
	Nowgong ...	ditto	ditto	ditto	Not received 1st January.
	Burpettah ...	ditto	ditto	ditto	
	Gowhatti ...	ditto	ditto	ditto	Not received 1st January.
	Sachanagar ...	ditto	ditto	ditto	
	Dholebagura ...	ditto	ditto	ditto	Not received 1st January.
ASSAM.	Debrooghur ...	ditto	ditto	ditto	
	Sudhya ...	ditto	ditto	ditto	Not received 1st January.
	Shillong ...	ditto	ditto	ditto	
	Jowai ...	ditto	ditto	ditto	Not received 1st January.
ASSAM.	Sanagaooding ...	ditto	ditto	ditto	
	Sanagaooding ...	ditto	ditto	ditto	Not received 1st January.
	Sanagaooding ...	ditto	ditto	ditto	

HENRY F. BLANFORD,

Meteorological Reporter to the Govt. of Bengal.

CALCUTTA,
The 14th January 1871.

Mean Pressures and Temperatures of the preceding table reduced to sea level, with mean Wind directions.

STATIONS.	Mean barometric pressure reduced to sea level.	Mean temperature reduced to sea level.	Proportional prevalence Max=100.	Mean direction.
Port Blair	30.030	79.1	75	N 19° E
Madras	30.038	79.1	67	N 68° E
Vinayapatnam	30.026	79.0	62	N 18° W
Akyab	30.039	78.9	27	N 13° W
False Point	30.039	79.0	30	N 43° W
Cuttack	30.035	74.1	41	N 1° E
Sanctor Island	30.030	73.1	44	N 21° W
Chittagong	30.039	73.0	46	N 77° W
Cuttack	30.034	69.8	87	N 4° W
Dacca	30.017	71.6	48	N 48° W
Cachar	30.031	70.3	21	N 61° E
Hazarrahmugh	30.045	71.1	44	N 65° W
Berhampore	30.046	73.1	46	N 58° W
Patna	30.033	68.9	51	N 5° W
Monghyr	30.015	68.4	66	S 75° W
Darjeeling	30.064	67.3	23	N 76° W
Gawalparah	30.007	70.3	24	S 60° E
Shillong	30.038	69.3	31	S 65° W
Banar	30.064	63.3	19	N 48° W
Boorken	30.077	64.0	1	N 45° W

NOTE.

Barometric Pressure.—The pressures in column 2 of the above table for all stations below 500 feet are reduced from those given in column 3 of the table on the previous page by adding the weight of a column of air of the corresponding temperatures given in column 17. For stations of above 500 feet elevation, the reduction is made by Dippe's tables as given in Guyot's "Meteorological and Physical Tables."

Temperature.—The temperatures in column 3 are reduced from those in column 17, on the preceding page, by adding 1° Fahr. for every 350 feet.

Wind Direction.—The mean wind direction and its comparative prevalence are calculated from the whole number of wind observations recorded during the half-month. The latter is given as a percentage of the whole number of observations. The mean direction is calculated in the usual way by Lambert's formula.

The above being all comparable, afford the data for constructing a meteorological chart for the half-month which shall shew the isobaric and isothermal lines, and the resultant wind directions, which last may be represented by arrows of varying length proportioned to the prevalence of the wind. To these may be added the rainfall from the previous tables.

HENRY F. BLANFORD,

Meteorological Reporter to the Government of Bengal.

The 18th January 1871.

Results of the Meteorological Observations taken at the Surveyor-General's Office, Calcutta, from 8th to 14th January 1871.

Month.	Date.	Mean reduced barometer.	THERMOMETER.			Mean dry bulb.	Mean wet bulb.	Computed mean dew-point.	Mean degree of humidity.	WIND.			Rain.	GENERAL REMARKS.
			Highest reading.	Lowest reading.	Max. solar radiation.					Prevailing direction.	Max. pressure.	Daily velocity.		
		Inches.		°	°	°	°	°			lb.	Miles.	In.	
Jan.	8th	29.981	76.7	59.8	131.2	67.0	60.9	60.0	0.70	N W & W N W	...	104.4	...	Cirri and cirrostrati and clear. Foggy from 8 to 11 p.m.
	9th	29.985	76.2	57.0	130.0	65.7	59.4	64.6	.69	W N W & N N W	...	105.7	...	Clear and cirri. Slightly foggy from midnight to 8 a.m., and 8 to 11 p.m.
	10th	29.970	75.6	55.7	132.5	65.5	59.0	63.9	.69	N N W & W N W	...	106.0	...	Cirri and cirrostrati and clear. Slightly foggy from 7 to 11 p.m.
	11th	29.949	78.0	57.5	131.0	66.8	60.6	65.5	.69	W N W & W by N	...	77.0	...	Clear. Slightly foggy from midnight to 8 a.m. and 8 to 11 p.m.
	12th	29.982	74.5	60.5	129.8	66.8	60.0	64.0	.67	W N W	...	107.4	...	Cirri and clear.
	13th	29.977	76.3	67.3	130.0	65.7	59.0	61.8	.63	W N W	...	106.5	...	Clear. Slightly foggy from 8 to 11 p.m.
	14th	29.996	77.2	58.2	130.5	65.7	58.0	61.8	.63	W by N & E N E	...	73.0	...	Clear. Slightly foggy from midnight to 8 a.m.

The mean barometer, as likewise the dry and wet bulb thermometer means, are derived from the twenty-four hourly observations made during the day.

The dew-point is computed with the Greenwich constants.—The figures in column 10 represent the humidity of the air, the complete saturation of which being taken at unity.—The receiver of the lower rain gauge is 1½ feet, and that of the anemometer 70 feet 10 inches, above the level of the ground.—The velocity of wind, as indicated by Robinson's anemometer, is registered from noon to noon.

The extreme variation of temperature during the past seven days	...	21.8
The max. temperature during the past seven days	...	78.0
The max. temperature during the corresponding period of the past year	...	78.3
The mean humidity during the past seven days	...	0.67
The mean humidity during the corresponding period of the past year	...	0.61

		Inches.	
The total fall of rain from 8th to 14th	... { by lower rain gauge	...	Nil
	... { by anemometer gauge	...	Nil
Ditto ditto, average of 17 previous years	...	...	0.09
Ditto between the 1st January and the 14th January	...	...	Nil
Ditto ditto ditto, average of 17 years	...	...	0.09

GOPPENAUH SEN,
In charge of the Observatory.

The 16th January 1871.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY—MAIN LINE.

Approximate Return of Traffic for week ended 31st December 1870, on 1,281½ miles open.

	COACHING TRAFFIC.				MERCANTILE AND MINERAL TRAFFIC.				Total Traffic Receipts.
	Number of passengers.	Coaching receipts.			Weight carried.	Receipts.			
		Rs. As. P.	£ s. d.		Mds. Strs.	Rs. As. P.	£ s. d.	£ s. d.	
Total traffic for the week	82,504½	1,40,318 3 3	12,552 10 0		333,000 0	4,51,786 7 2	41,537 1 10	84,429 11 10	
Or per mile of railway	64,403½	109,175 8 9	8,157 4 0		259,831 10	3,48,652 4 2	32,356 12 8	66,843 17 8	
For previous 26½ weeks of half year	2,200,058	33,80,175 8 9	307,000 0 0		12,453,831 10	16,29,652 4 2	1,51,746 12 8	1,124,643 17 8	
Total for 26½ weeks	2,234,561½	34,00,491 13 0	310,261 15 0		13,072,790 10	16,74,654 15 4	1,579,843 16 0	1,179,395 9 8	
COMPARISON.									
Total for corresponding week of previous year	62,915	1,13,225 13 8	10,443 5 10		645,146 20	9,03,271 12 7	83,118 13 7	43,680 27 5	
Per mile of railway corresponding week of previous year	48,311	100 11 8	8 4 8		519 6 10	709 5 7	66 10 3	33 10 3	
Total to corresponding date of previous year	2,500,973½	30,50,127 7 11	335,420 0 5		15,315,221 23	21,80,203 0 3	2,08,743 16 6	1,104,161 10 11	

* Rs. 37,825-6-2 added on account difference between audited and approximate returns up to 18th December 1870.

EAST INDIAN RAILWAY—JUBBULPORE LINE.

Approximate Return of Traffic for week ended 31st December 1870, on 223 miles open.

		Rs. As. P.	£ s. d.	Mds. Strs.	Rs. As. P.	£ s. d.	£ s. d.
Total traffic for the week ...	4,215	20,550 3 3	1,368 12 1	53,270 20	17,080 1 4	1,437 8 0	5,333 0 8
Or per mile of railway ...	18,903	92 12 0	6 10 1	238 20 0	76 5 1	6 5 11	24 10 0
For previous 26½ weeks of half year ...	60,403½	2,78,270 3 6	23,600 11 0	707,295 00	2,30,338 10 2	21,082 14 0	47,265 6 3
Total for 26½ weeks ...	64,618½	2,99,069 5 7	27,407 3 10	760,565 10	2,52,219 10 8	23,120 2 8	52,417 6 6
COMPARISON.							
Total for corresponding week of previous year ...	2,866	2,728 15 5	402 16 7	35,806 20	10,007 14 5	917 7 11	1,810 2 6
Per mile of railway corresponding week of previous year ...	12,800	48 10 9	1 6 2	158 0 0	44 14 1	4 2 3	8 3 4
Total to corresponding date of previous year ...	79,118	2,94,089 0 2	23,635 6 11	800,583 0	2,18,840 15 0	20,000 8 2	49,608 15 4

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week ended December 31st 1870, on 113½ miles open.

		Rs. As. P.	£ s. d.	Mds. Strs.	Rs. As. P.	£ s. d.	£ s. d.
Total traffic for the week ...	32,054	10,563 10 9	1,500 0 1	73,437 30	19,003 0 11	1,524 7 1	3,321 7 2
Or per mile of railway ...	281	93 7 10	13 4 11	648 0	168 11 0	13 2 0	29 7
For previous 26½ weeks of half year ...	629,054	3,27,630 7 11	30,020 1 0	2,732,126 10	6,32,617 0 0	57,983 10 7	84,412 12 8
Total for 26½ weeks ...	651,108½	3,38,293 12 8	31,520 1 10	2,810,563 10	6,43,419 10 3	69,807 17 8	91,706 10 7
COMPARISON.							
Total for corresponding week of previous year ...	20,220	10,704 5 0	1,431 4 0	214,920 20	17,713 9 7	1,023 14 1	3,161 15 10
Per mile of railway corresponding week of previous year ...	178	94 8 0	12 10 8	1,898 0	156 0 0	9 0 0	27 17 2
Total to corresponding date of previous year ...	649,130½	3,74,905 0 3	34,210 12 15	2,707,697 14½	5,21,003 0 8	48,767 12 7	68,111 3

CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Traffic for week ended 31st December 1870, on 28 miles open.

		Rs. As. P.	£ s. d.	Mds. Strs.	Rs. As. P.	£ s. d.	£ s. d.
Total traffic for the week ...	2,885	1,101 1 0	110 2 1	11,242 0	378 13 6	31 17 11	145 0 0
Or per mile of railway ...	103	39 3 2	3 13 7	401 20	13 7 5	1 4 11	5 0 0
For previous 14 weeks of half year ...	68,163½	11,383 2 0	1,138 0 4	147,603 15	4,518 8 3	481 17 0	1,625 3 4
Total for 14 weeks ...	70,048½	12,484 3 0	1,248 8 5	158,845 15	5,107 7 3	511 14 11	1,730 3 4
COMPARISON.							
Total for corresponding week of previous year ...	5,600	970 11 3	90 10 7	8,004 0	263 0 8	21 2 4	116 13 1
Per mile of railway, corresponding week of previous year ...	131	34 14 1	3 3 0	289 8	10 2 10	0 16 4	4 0 7
Total to corresponding date of previous year ...	60,222½	10,408 7 4	999 18 10	1,28,560 0	4,343 4 8	426 0 5	1,420 0 0

ORISSA CIRCLE.

Statement showing the amount of Traffic and Tolls on the Kendrapara Canal during the month of October 1970.

DISTANCE FROM CUTTACK TO TERMINAL DOCK AT TIDE WATER, 4½ MILES.

[illegible]

IRRIGATION BRANCH, PUBLIC WORKS DEPARTMENT, BENGAL.

ORISSA CIRCLE.

Statement showing the amount of Traffic and Tolls on the Taldundak Canal during the month of
October 1870.

LENGTH OF CANAL OPEN, 7 MILES.

LOCAL TRAFFIC.					STORES AND MATERIALS FOR IRRIGATION WORKS.					ABSTRACT.											
Number of boats.	Nature of cargo.	Approximate value of cargo.	TONNAGE.		Number of boats.	Nature of cargo.	Approximate value of cargo.	TONNAGE.		Number of boats.	Nature of traffic.	Value of traffic.	TONNAGE.								
			Maunder.	Tons.				Maunder.	Tons.				Tollage.	Tollage.	Tollage.						
		Rs.					Rs.						Rs. As. P.								
10	Paddy ..	2,000	4,000	...	10	0	0	30	Rubble stone ...	800	10,000	...	48	0	5,000	Local ...	4,500	210	15	6	2
11	Empty ...	2,000	2,043	...	6	1	8	20	Lime stone ...	40,000	40,618	...	128	12	800	Iron works	51,000	2,000	180	10	0
1	Empty ...	400	87	...	0	3	0	7	Lime	2,000	5,781	...	14	7	800	...	...	...	...	...	...
22	.....	4,000	0,180	219	12	0	2	00	.....	51,000	72,263	2,581	180	10	836	.....	55,000	2,000	195	15	0

The tonnage above shown is that of the boats, and not of the cargo.

IRRIGATION BRANCH, PUBLIC WORKS DEPARTMENT, BENGAL.

SOUTH-WESTERN-CIRCLE.

Statement showing the amount of Traffic and Tolls on the Midnapore Section of the High Level Canal during the month of October 1870.

LENGTH OF CANAL-OPEN, 24 MILES.

LOCAL TRAFFIC.										STORES AND MATERIALS FOR IRRIGATION WORKS.										ABSTRACT.			
Number of boats.	Nature of cargo.	Approximate value of cargo.	Tonnage.		Tolls.	Rs. As. P.	Number of boats.	Nature of cargo.	Approximate value of cargo.	Tonnage.		Tolls.	Rs. As. P.	Number of boats.	Nature of traffic.	Value of traffic.	Tonnage.	Rs. As. P.					
			Mounds.	Tons.						Mounds.	Tons.												
14	Coal	1,010	6,850	...	40 0 0	...	...	...	...	...	...	...	...	1,831	Local	3,05,103	7,853	1,000 9 0
21	Cotton	10,318	9,150	...	13 10 8	...	...	...	...	...	...	...	...	...	...	...	...	...
14	Pine-rod	983	1,750	...	7 11 0	...	...	...	...	...	...	...	...	...	...	...	...	...
14	Grain	4,743	5,450	...	17 6 0	...	...	...	...	...	...	...	...	...	...	...	...	...
27	Grain and kharra	3,176	1,325	...	6 4 0	...	...	...	...	...	...	...	...	...	...	...	...	...
29	Jaggery and sugar	66,449	5,175	...	25 14 0	...	...	...	...	...	...	...	...	...	...	...	...	...
29	Miscellaneous	11,231	16,176	...	21 5 0	...	...	...	...	...	...	...	...	...	...	...	...	...
57	Oil and oil-seeds	14,590	12,950	...	60 14 0	...	...	...	...	...	...	...	...	...	...	...	...	...
64	Paddy and rice	7,868	10,776	...	41 0 0	...	...	...	...	...	...	...	...	...	...	...	...	...
62	Paddy and rice	7,864	26,776	...	123 6 0	...	...	...	...	...	...	...	...	...	...	...	...	...
164	Firewoods	2,030	3,490	...	16 14 6	...	...	...	...	...	...	...	...	...	...	...	...	...
34	Garden produce	241	4,425	...	16 14 6	...	...	...	...	...	...	...	...	...	...	...	...	...
25	Pottery	18,758	4,575	...	16 1 6	...	...	...	...	...	...	...	...	...	...	...	...	...
25	Salt	62,745	4,575	...	16 1 6	...	...	...	...	...	...	...	...	...	...	...	...	...
36	Silk and indigo	1,378	1,378	...	7 9 0	...	...	...	...	...	...	...	...	...	...	...	...	...
4	Jute	238	1,426	...	8 11 0	...	...	...	...	...	...	...	...	...	...	...	...	...
4	Stems	16,041	5,350	...	24 10 9	...	...	...	...	...	...	...	...	...	...	...	...	...
18	Tobacco	16,041	2,275	...	16 6 0	...	...	...	...	...	...	...	...	...	...	...	...	...
6	Bricks	120	900	...	9 4 0	...	...	...	...	...	...	...	...	...	...	...	...	...
1	4thong	...	85,175	...	418 2 9	...	...	...	...	...	...	...	...	...	...	...	...	...
327	Empty boats	...	Rs. 6,626	...	55 1 8	...	...	...	...	...	...	...	...	...	...	...	...	...
735	Empty boats	...	Logs 8	...	0 12 0	...	...	...	...	...	...	...	...	...	...	...	...	...
3	Empty boats	...	150	...	1 4 0	...	...	...	...	...	...	...	...	...	...	...	...	...
2	Empty boats	...	150	...	27 13 1	...	...	...	...	...	...	...	...	...	...	...	...	...
1,831	Total	3,05,103	5,18,525	7,853	1,000 9 0	...	20	Total	806	7,476	287	59 9 5	...	1,831	...	3,05,103	7,853	1,119 11 0					

The tonnage above shown is that of the boats, and not of the cargo.

IRRIGATION BRANCH, PUBLIC WORKS DEPARTMENT, BENGAL.

SOUTH-WESTERN CIRCLE.

Statement showing the amount of Traffic and Tolls on the Haidgelles Tidal Canal during the month of October 1870.
 LENGTH OF CANAL OPEN, 28 MILES.

LOCAL TRAFFIC.				STORES AND MATERIALS FOR IRRIGATION WORKS.				ABSTRACT.							
Number of boats.	Nature of cargo.	Approximate value of cargo.		Tonnage.		Tollage.	Number of boats or rafts.	Nature of cargo.	Approximate value of cargo.		Tonnage.		Tollage.	Value of traffic.	Remarks.
		Rs.	Mauds.	Mauds.	Tons.				Rs.	Mauds.	Mauds.	Tons.			
303	Paddy	20,330	40,440			854 13 8	2	Wool and plant	1,000	180	3 0 0	799	281,137	Rs. As. P.	
33	Rice	17,894	7,916			40 3 9	1	Spice	50	276	3 1 1	21	1,994	4,191	For iron works.
1	Vegetable	30	40			0 2 0	1	Bamboo	16	35	0 4 5				
6	Melons	2,728	646			0 2 0	1	Coal	120	450	8 16 0				
1	Orn. milk	50	36			1 15 0	1	Empty	25	25	0 4 6				
2	Bamboo	120	206			9 12 0	1	Perkinsmen	750	480	3 13 0				
4	Firewood	1,390	1,390			192 0 0	1	Stone moulds	150	150	0 13 0				
217	Empty boats	27,806	27,806			98 0 0	1	Iron	125	125	2 0 6				
43	Passengers		2,905			0 13 3									
2	Red lead	550	83			1 4 8									
2	Oil cakes	900	150			108 3 0									
74	Tobacco	22,180	12,030			13 14 3									
23	Pottery	901	9,013			2 4 0									
1	Plaster	1,800	200			8 4 0									
10	Timber	1,500	116			18 4 0									
2	Shuttering	2,400	400			3 6 0									
2	Sugar	9,400	476			3 2 0									
2	Sugar candy	6,350	606			3 4 0									
1	Flax	900	450			0 10 0									
1	Silk goods	4,000	125			1 10 0									
1	Jeans	1,500	325			0 3 8									
1	Blankets	6	30			59 9 0									
18	Salt	43,525	5,603			1 4 0									
1	Grains	1,000	250			12 15 8									
21	Mustard	10,400	2,500			3 4 0									
2	Clothes	6,750	270			3 4 0									
1	Cotton	6,000	230			3 10 0									
1	Lined	5,000	100			3 4 0									
1	Iron	62	235			3 4 0									
1	Goods No. 29	50	60			3 4 0									
1	Water		460			3 0 0									
1	Kite	2,850	478			7 8 0									
1	Cows No. 6	50	160			0 12 0									
12	Horns	5,910	1,400			7 8 0									
3	Straw	800	1,700			0 8 0									
795		2,81,137	1,17,830	4,101	13	901 5 6			1,006	1,780	16 8 9	610	2,33,103	4,251	917 16 3

N. B.—The tonnage shown above is of the boats as measured and not of the cargo.

CAYENNE.

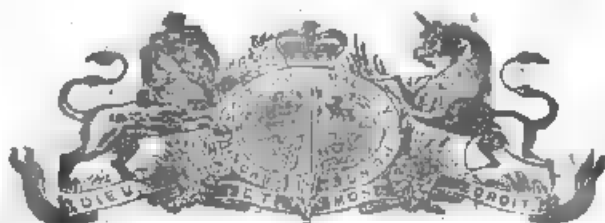
N. B.—The tonnage shown above is of the boats as measured and not of the cargo.

CALCUTTA,
 The 17th January 1871.

J. F. STODDARD, Lieut.-Col.,
 Asst. to Chief Engr., and St. Secy., P. W. D., Irrigation Branch, Bengal.
 PRINTED BY EDWIN MORRIS LEWIS, AT THE BENGAL SECRETARIAT OFFICE.

No. 4

of 1871



SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, JANUARY 25, 1871.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT, separately, on payment of six Rupees per annum if delivered in Calcutta, or twelve Rupees if sent by Post.

Meteorological Telegraphic Report for the period 15th to 21st January 1871.

Station.	Date.	Hour.	Barometer reduced to 32°.	Barometer reduced to sea-level.	Thermometer.		Humidity (Sat. = 100).	Wind.		Rain.	Clouds.	Weather initials.
					Dry.	Wet.		Direction.	Velocity.			
Calcutta.	Jan. 15th	10	30.067	30.045	69.2	68.0	57	ENE	...	...	O	
	15th	16	30.031	29.983	77.0	61.7	88	N	...	...	OK	
	16th	10	30.031	30.040	78.0	62.8	66	N E	...	...	OK	
	16th	16	29.995	29.923	78.4	61.5	48	NNE	...	...	OK	
	17th	10	30.004	29.921	71.0	63.6	63	NNE	...	...	OK	
	16th	16	29.999	29.917	78.0	68.0	49	N by E	...	...	OK	
	18th	10	30.003	30.002	73.8	65.0	68	NNE	...	...	OK	
	16th	16	30.016	29.913	70.8	67.0	49	N E	...	...	OK	
	19th	10	30.103	29.938	79.6	63.8	62	NNE	...	...
	16th	16	30.017	29.963	70.0	64.4	67	NW	...	...
Sagar Island.	20th	10	30.070	30.005	69.0	61.6	66	NW	...	...
	16th	16	29.997	29.915	75.6	62.6	48	W	...	...
	21st	10	30.001	29.940	69.0	68.6	55	W	...	...
	16th	16	29.980	29.849	74.0	62.0	47	WNW	...	...
	15th	10	30.063	30.071	71	61	53	NNE	6.4	...	CS	
	16th	16	29.924	29.899	78	65	45	NNW	0.2	...	C	
	16th	16	29.940	29.846	74	63	51	NNE	0.0	...	C	
	17th	10	29.909	29.815	80	68	51	NNW	11.4	...	C	
	16th	16	30.016	29.923	74	66	63	NNE	3.4	...	C, CK	
	16th	16	29.995	29.911	78	63	57	NNW	2.4	...	CK	
Chittagong.	18th	10	30.071	30.077	78	68	80	NNW	2.8	...	N	
	16th	16	29.983	29.909	73	60	61	NNW	4.7	...	KS	
	19th	10	30.009	30.105	75	69	63	NNW	10.0	...		
	16th	16	29.978	29.983	80	69	64	NNW	10.3	...		
	20th	10	30.048	30.000	78	63	64	NNW	7.1	...		
	16th	16	29.913	29.919	80	69	64	SSE	10.1	...		
	21st	10	30.034	30.010	70	61	70	NW	4.0	...		
	16th	16	29.989	29.893	77	64	45	NW	5.0	...		
	15th	10	29.923	29.912	70	60	53	SSE	4.5	...		
	16th	16	29.936	29.904	80	65	40	WSW	7.1	...		
Madras.	16th	10	29.935	29.913	77	61	57	ENE	5.4	...		
	17th	10	29.907	29.919	74	65	49	W	4.6	...		
	16th	16	29.977	29.980	74	65	49	NN	5.2	...		
	16th	16	29.973	29.893	84	71	60	W	0.3	...		
	18th	10	29.915	29.963	75	67	63	NE	3.5	...		
	16th	16	29.918	29.930	81	69	43	NW	0.7	...		
	19th	10	29.921	29.943	70	69	54	N	3.0	...		
	16th	16	29.901	29.917	64	72	63	WSW	3.3	...		
	20th	10	29.960	29.982	74	68	73	NNE	5.1	...		
	16th	16	29.904	29.916	79	70	5	W	3.2	...		
Cuttack.	21st	10	29.925	29.987	78	64	63	N	4.2	...		
	16th	16	29.997	29.910	79	67	50	WSW	5.0	...		
	14th	10	29.981	29.971	69	74	66	N by E	11.0	...		
	16th	16	29.963	29.943	61	78	72	NNE	7.3	...		
	15th	10	29.967	29.933	69	75	70	NNE	14.0	...		
	16th	16	29.923	29.958	61	74	70	NNE	11.0	...		
	16th	16	29.944	29.974	62	74	66	ENE	7.7	...		
	16th	16	29.917	29.977	76	73	88	E	2.0	0.01		
	17th	10	29.952	29.982	61	75	74	E by S	6.0	0.10		
	16th	16	29.921	29.951	62	75	70	E	9.0	0.01		
Agra.	18th	10	29.998	30.020	68	78	68	SE	9.0	...		
	16th	16	29.996	29.920	63	78	71	N E by N	12.0	...		
	19th	10	30.007	30.027	63	76	74	NW	7.0	0.29		
	16th	16	29.959	29.980	63	78	63	N	11.0	...		
	20th	10	30.040	30.070	62	75	70	NW by N	7.0	...		
	16th	16	29.911	29.931	63	75	67	N	14.0	...		
	21st	10	30.024	30.051	62	71	65	NNW	8.0	...		
	16th	16	29.915	29.915	63	70	49	SSE	9.0	...		
	14th	10	29.907	29.951	70	67	81	NNW	...	...		Fair.
	16th	16	29.966	29.949	78	64	43	NE	...	...		Fair.
Allahabad.	16th	10	29.990	30.074	70	60	62	NE	...	...		Fair.
	16th	16	29.920	29.912	77	65	49	E	...	...	OK	
	18th	10	30.007	30.001	72	60	45	NW	...	...	C, OK	
	16th	16	29.917	29.909	77	67	50	SSE	...	...		Fair.
	17th	10	29.943	30.036	73	62	60	NE	...	...	C, KS	
	16th	16	29.929	29.912	76	68	54	SSE	...	...	KS, N	
	18th	10	30.015	30.030	70	68	69	NW	...	...	N	
	16th	16	29.901	29.945	75	69	72	NNW	...	...		Fair.
	19th	10	30.027	30.110	78	67	60	NNE	...	...		Fair.
	20th	10	29.981	29.984	80	68	54	NNW	...	...	KS	
Lucknow.	20th	10	30.027	30.111	75	65	65	NNE	...	...	KS	
	16th	16	29.946	29.929	78	60	49	NNW	...	...		Fair.
	21st	10	29.970	29.954	70	62	61	NNW	...	...		Fair.
	15th	10	29.936	29.919	68	61	34	NW	...	...		Fair.
	15th	10	30.007	29.929	70	63	65	ENE	1	...		
	16th	10	29.933	29.948	70	65	63	W	2	...		
	16th	10	29.900	29.916	69	68	70	NR	2	...	O	
	16th	16	29.933	29.944	70	70	61	W	2	...	O	
	17th	10	29.966	29.981	71	64	60	ENE	2	...	O	
	18th	10	29.951	29.966	69	69	64	W	2	...	C, CS	
Allahabad.	18th	10	29.992	29.906	72	67	75	E	1	...		
	16th	16	29.981	29.906	60	71	62	W	9	...		
	19th	10	29.987	29.913	74	67	67	W	1	...		
	16th	16	29.955	29.920	63	72	69	W	2	...		
	20th	10	29.987	29.943	74	65	69	NNE	2	...		
	21st	10	29.931	29.940	80	69	54	NW	2	...		
Allahabad.	21st	10	29.965	29.971	71	65	70	N	2	...		
	16th	16	29.926	29.941	76	68	57	N	2	...		

* Velocity of wind in miles per hour.

CALCUTTA.
The 21st January 1871.HENRY F. BLANFORD,
Meteorological Reporter to the Government of Bengal.

Weekly Report of Rainfall compiled at the Meteorological Reporter's Office.

Divisions.	Stations.	Rainfall from 1st to 8th Jan. 1871.	Rainfall from 9th to 15th Jan. 1871.	RAIN FROM 1ST JANUARY 1871.		REMARKS.
				Rain.	Up to date.	
COCHIN.	Cuttack { Telegraph-Office ...	Nil	Nil	Nil	15th Jan. 1871.	
	Cuttack { Jail ...	ditto	ditto	ditto	ditto.	
	Falan Point ...	ditto	Not received	ditto	8th Jan. 1871.	
	Jagjore ...	ditto	ditto	ditto	ditto.	
	Kendrapatna ...	ditto	ditto	ditto	ditto.	
	Jugutangi ...	ditto	ditto	ditto	ditto.	
	Simulipore ...	Not received	ditto	Nil	15th Jan. 1871.	Not received 2nd to 6th Jan.
	Balasore ...	ditto	Nil	ditto	ditto.	
CHORP NAGPORA.	Bhadrachal ...	Nil	ditto	ditto	ditto.	
	Ponore ...	ditto	ditto	ditto	ditto.	
	Khordah ...	Not received	Not received	...	...
	Bhatnagar ...	Nil	Nil	Nil	15th Jan. 1871.	
	Burho ...	Not received	Not received	Nil	15th Jan. 1871.	
	Pachamba ...	Nil	Nil	Nil	15th Jan. 1871.	
	Ranchod ...	ditto	Not received	ditto	8th Jan. 1871.	Not received 1st January.
	Palanow ...	ditto	ditto	ditto	ditto.	
PATNA.	Paralia ...	ditto	Nil	ditto	15th Jan. 1871.	
	Gahadpore ...	Not received	Not received	Nil	15th Jan. 1871.	
	Chyabana ...	Nil	Nil	Nil	15th Jan. 1871.	
	Patna ...	ditto	ditto	ditto	ditto.	
	Behar ...	Not received	Not received	Nil	8th Jan. 1871.	
	Barb ...	Nil	ditto	Nil	15th Jan. 1871.	
	Dumra ...	ditto	Nil	ditto	ditto.	
	Gya ...	ditto	ditto	ditto	ditto.	
BANGALORE.	Shorghatty ...	Not received	Not received	Nil	15th Jan. 1871.	
	Nawalak ...	Nil	Nil	Nil	15th Jan. 1871.	
	Arangabad ...	Not received	Not received	Nil	15th Jan. 1871.	
	Chunapur ...	Nil	Nil	Nil	15th Jan. 1871.	
	Chunpur ...	ditto	ditto	ditto	ditto.	
	Sevan ...	ditto	Not received	ditto	8th Jan. 1871.	
	Machharpore ...	ditto	ditto	ditto	ditto.	
	Burthungah ...	ditto	ditto	ditto	ditto.	
RAJAHMUNDRY.	Beatalmaro ...	ditto	Nil	ditto	15th Jan. 1871.	
	Tajpore ...	Not received	Not received	Nil	15th Jan. 1871.	
	Arca ...	Nil	ditto	Nil	15th Jan. 1871.	
	Tagar ...	ditto	ditto	ditto	ditto.	
	Saonara ...	Not received	Not received	...	...
	Bhubalash ...	ditto	ditto	...	...
	Bonara ...	Nil	ditto	Nil	8th Jan. 1871.	
	Shangulpore ...	Not received	Nil	ditto	15th Jan. 1871.	Not received 2nd to 6th Jan.
RAJAHMUNDRY.	Minghypporah ...	Nil	ditto	ditto	ditto.	
	Banua ...	Not received	Not received	Nil	15th Jan. 1871.	
	Monghyr ...	Nil	Nil	Nil	15th Jan. 1871.	
	Jamode ...	Not received	Not received	...	...
	Bogomari ...	ditto	ditto	...	...
	Baighur ...	Nil	Nil	Nil	15th Jan. 1871.	
	Parical ...	ditto	ditto	ditto	ditto.	
	Banpore ...	ditto	ditto	ditto	ditto.	
RAJAHMUNDRY.	Natore ...	ditto	Not received	ditto	8th Jan. 1871.	
	Dagru ...	ditto	Nil	ditto	15th Jan. 1871.	
	Dumra ...	ditto	ditto	ditto	ditto.	
	Mahab ...	ditto	ditto	ditto	ditto.	
	Berhampore ...	ditto	ditto	ditto	ditto.	
	Pubna ...	ditto	ditto	ditto	ditto.	
	Coimbatore ...	Not received	ditto	ditto	ditto.	Not received 2nd to 6th Jan.
	Barajung ...	ditto	Not received	...	...
RAJAHMUNDRY.	Kanpur ...	ditto	Nil	Nil	15th Jan. 1871.	Not received 2nd to 6th Jan.
	Titulya ...	Nil	ditto	ditto	ditto.	
	Burdwan ...	ditto	ditto	ditto	ditto.	
	Cakra ...	ditto	ditto	ditto	ditto.	
	Chila ...	ditto	Not received	ditto	8th Jan. 1871.	
	Good-Dood ...	ditto	Nil	ditto	15th Jan. 1871.	
	Banpurah ...	ditto	ditto	ditto	ditto.	
	Ranagunga ...	ditto	ditto	ditto	ditto.	
RAJAHMUNDRY.	Soore ...	ditto	ditto	ditto	ditto.	
	Booghly ...	ditto	ditto	ditto	ditto.	
	Howrah ...	Not received	ditto	ditto	ditto.	Not received 2nd to 6th Jan.
	Mahanpore ...	Nil	ditto	ditto	ditto.	
	Contai ...	ditto	Not received	ditto	6th Jan. 1871.	
	Gurhat ...	ditto	ditto	ditto	ditto.	
	Tumuk ...	ditto	ditto	ditto	ditto.	Not received 1st January.
	Kishuaghar ...	ditto	Nil	ditto	15th Jan. 1871.	
PARTURIST.	Bongong ...	ditto	ditto	ditto	ditto.	
	Kanaghat ...	ditto	ditto	ditto	ditto.	
	Meharore ...	ditto	Not received	ditto	8th Jan. 1871.	
	Chaukang ...	Not received	ditto	...	...
	Koushtak ...	Nil	ditto	Nil	8th Jan. 1871.	
	Jessore ...	ditto	Nil	ditto	15th Jan. 1871.	
	Saugor Island ...	ditto	ditto	ditto	ditto.	
	Calcutta ...	ditto	ditto	ditto	ditto.	
PARTURIST.	Alipore { Jail ...	ditto	ditto	ditto	ditto.	
	Alipore { Dispensary ...	ditto	ditto	ditto	ditto.	
	Barrackpore ...	ditto	Not received	ditto	8th Jan. 1871.	
	Dum Dum ...	ditto	ditto	ditto	ditto.	
	Barnet ...	ditto	ditto	ditto	ditto.	
	Nakhorah ...	ditto	ditto	ditto	ditto.	
	Bassorah ...	ditto	ditto	ditto	ditto.	
	Barisal Harbour ...	ditto	ditto	ditto	ditto.	
PARTURIST.	Barisal ...	ditto	ditto	ditto	ditto.	
	Barisal ...	ditto	ditto	ditto	ditto.	

DIVISION.	Stations.	Rainfall from 1st to 8th Jan. 1871.	Rainfall from 1st to 16th Jan. 1871.	RAIN FROM 1st JANUARY 1871.		REMARKS.
				Rain.	Up to date.	
Dacca.	Dacca { Telegraph Office ...	Not received	Not received	Nil	16th Jan. 1871.	
	Dacca { Jail ...	Nil	Nil	ditto	ditto.	
	Barrisaul ...	ditto	ditto	ditto	ditto.	
	Dowlat Khan ...	ditto	Not received	ditto	8th Jan. 1871.	
	Perompore ...	ditto	Nil	ditto	16th Jan. 1871.	
	Madaripore ...	ditto	ditto	ditto	ditto.	
	Furzedpore ...	ditto	ditto	ditto	ditto.	
	Mymensing ...	ditto	Not received	ditto	8th Jan. 1871.	
	Jamulpore ...	Not received	ditto	...	...
	Atteah ...	ditto	ditto	...	...
	Kishoregungo ...	Nil	ditto	Nil	8th Jan. 1871.	
CHITTAGONG.	Sylhet ...	ditto	Nil	ditto	16th Jan. 1871.	
	Cachar ...	ditto	Not received	ditto	8th Jan. 1871.	
	Aoushabail Nylakandy ...	Not received	ditto	...	...
	Chittagong { Telegraph Office ...	Nil	Nil	NR	16th Jan. 1871.	
	Chittagong { Jail ...	ditto	Not received	ditto	8th Jan. 1871.	
	Cox's Bazar ...	Not received	ditto	Nil	8th Jan. 1871.	
	Itanagar Hill ...	Nil	ditto	Nil	16th Jan. 1871.	Not received 2nd to 8th Jan. Ditto.
	Nonkhally ...	Not received	Nil	ditto	ditto	
	Tippurah ...	ditto	ditto	ditto	...	
	Brahmanbariah ...	Nil	Not received	ditto	8th Jan. 1871.	
	Akyab ...	ditto	Nil	ditto	16th Jan. 1871.	
COCHIN BEHAR.	Bura ...	ditto	ditto	ditto	ditto.	
	Gawalparah ...	ditto	Not received	ditto	8th Jan. 1871.	
	Dhalpore ...	Not received	ditto	...	...
	Taura (Garo Hills) ...	Nil	ditto	NR	8th Jan. 1871.	
	Darjeeling { Telegraph Office ...	Not received	ditto	...	...
	Darjeeling { Jail ...	ditto	ditto	...	...
	Bangabbe ...	ditto	ditto	...	...
	Tera ...	ditto	ditto	...	...	Not recorded.
	Fulmottah ...	Nil	Nil	NR	16th Jan. 1871.	
	Jalpaiguri ...	ditto	ditto	ditto	ditto	
	Bota ...	Not received	ditto	ditto	...	Not received 2nd to 8th Jan.
ASSAM.	Tezpur ...	Nil	Not received	ditto	8th Jan. 1871.	
	Nongong ...	Not received	ditto	...	...
	Burpeth ...	ditto	ditto	...	...
	Amambay ...	ditto	ditto	...	...
	Sagunagar ...	0.05	ditto	Nil	8th Jan. 1871.	
	Chinghai ...	Nil	ditto	ditto	ditto.	
	Nazareth ...	0.03	ditto	ditto	ditto.	
	Dubroghing ...	Nil	ditto	ditto	...	Not received 1st January.
	Suddya ...	Not received	ditto	...	...
	Shilong ...	Nil	ditto	NR	8th Jan. 1871.	
	Jawai ...	Not received	ditto	...	...
	Samogooding ...	ditto	ditto	...	...

HENRY F. BLANFORD,

Meteorological Reporter to the Govt. of Bengal.

CALCUTTA,

The 21st January 1871.

Results of the Meteorological Observations taken at the Surveyor-General's Office, Calcutta, from 15th. to 21st January 1871.

Month.	Date.	Mean reduced barometer.	THERMOMETER.			Mean dry bulb.	Mean wet bulb.	Computed mean dew-point.	Mean degree of humidity.	WIND.			Rain.	General Remarks.
			Highest reading.	Lowest reading.	Max. solar radiation.					Prevailing direction.	Max. pressure.	Daily velocity.		
		Inches.		°	°	°	°	°	°		H	Miles.	In.	
Jan.	15th	29.988	78.4	57.3	133.0	68.8	58.6	51.9	0.21	E N E & N	...	138.0	...	Clear and cirro cumuli. Slightly foggy from 7 to 11 P. M.
	16th	29.971	79.5	60.0	137.6	68.9	60.2	54.3	0.51	N N E & N	...	150.6	...	Clear and cirro cumuli.
	17th	29.946	79.2	61.2	137.9	70.0	63.0	57.4	0.66	N N E, N E & N by E	...	150.7	...	Clear and cirro cumuli.
	18th	29.929	79.4	67.8	124.3	72.7	66.1	60.8	0.68	N by E, N N E & N E	...	81.7	...	Stratiform and cirro cumuli. Slightly foggy from 9 to 11 P. M. Drizzled at 5 1/2 and 11 A. M.
	19th	30.005	79.8	65.4	135.0	72.3	65.2	59.5	0.68	N & N W	...	98.2	...	Chiefly clear. Slightly foggy at midnight and 1 A. M.
	20th	30.076	75.7	62.0	135.0	68.8	61.9	66.3	0.66	N W & W	...	158.1	...	Clear. Slightly foggy at 10 and 11 P. M.
	21st	29.948	75.0	63.8	134.6	69.1	60.7	64.8	0.68	W & W by N	...	109.1	...	Clear. Slightly foggy at midnight.

The mean barometer, as likewise the dry and wet bulb thermometer means, are derived from the twenty-four hourly observations made during the day.

The dew-point is computed with the Greenwich constants.—The figures in column 10 represent the humidity of the air, the complete saturation of which being taken at unity.—The receiver of the lower rain gauge is 1 1/2 feet, and that of the anemometer 70 feet 10 inches, above the level of the ground.—The velocity of wind, as indicated by Robinson's anemometer, is registered from noon to noon.

The extreme variation of temperature during the past seven days	...	22.6
The max. temperature during the past seven days	...	79.8
The max. temperature during the corresponding period of the past year	...	83.2
The mean humidity during the past seven days	...	0.65
The mean humidity during the corresponding period of the past year	...	0.72
		Inches.
The total fall of rain from 15th to 21st ...	{ by lower rain gauge	Nil
	{ by anemometer gauge	Nil
Ditto ditto, average of 17 previous years	...	0.08
Ditto between the 1st January and the 21st January	...	Nil
Ditto ditto ditto, average of 17 years	...	0.17

GOPSENAUTH SEN,
In charge of the Observatory.

The 23rd January 1871.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY—MAIN LINE.

Approximate Return of Traffic for week ended 7th January 1871, on 1,279½ miles open.

	COACHING TRAFFIC.			MERCHANDISE AND MINERAL TRAFFIC.			Total Traffic Receipts.
	Number of passengers.	Coaching receipts.		Weight carried.	Receipts.		
		Rs. As. P.	£ s. d.	Mds. Strs.	Rs. As. P.	£ s. d.	£ s. d.
Total traffic for the week ...	87,848	1,42,658 10 2	13,022 0 10	568,548 20	3,71,306 8 3	34,636 8 7	47,068 9 8
Or per mile of railway ...	.....	111 0 5	10 3 7	.....	290 8 3	26 12 0	36 15 7
For previous weeks of half year ...	.....	.....	.....	.....	.....	.....	.....
Total for 1 week ...	87,848	1,42,658 10 2	13,022 0 10	568,548 20	3,71,306 8 3	34,636 8 7	47,068 9 8
COMPARISON.							
Total for corresponding 8 days of previous year ...	124,196½	2,82,053 4 11	25,535 10 3	767,008 80	4,54,652 2 4	41,766 2 3	57,001 10 8
Per mile of railway, corresponding period of previous year ...	.....	249 5 11	25 17 2	.....	402 14 0	36 15 7	50 15 2
Total to corresponding date of previous year ...	124,196½	2,82,053 4 11	25,535 10 3	767,008 80	4,54,652 2 4	41,766 2 3	57,001 10 8

EAST INDIAN RAILWAY—JUBBULPORE LINE.

Approximate Return of Traffic for week ended 7th January 1871, on 223 miles open.

		Coaching Traffic		Mds. Strs.	Merchandise and Mineral Traffic		Total Traffic Receipts
		Rs. As. P.	£ s. d.		Rs. As. P.	£ s. d.	
Total traffic for the week ...	3,823	12,944 4 9	1,177 7 11	47,048 0	15,234 6 6	1,595 21 4	3,873 19 3
Or per mile of railway ...	...	57 9 7	5 6 7	...	68 4 6	6 5 2	74 10 9
For previous weeks of half year ...	...	...	...	...	...	...	...
Total for 1 week ...	3,823	12,944 4 9	1,177 7 11	47,048 0	15,234 6 6	1,595 21 4	3,873 19 3
COMPARISON.							
Total for corresponding 8 days of previous year ...	4,900½	19,177 11 4	1,787 19 3	20,048 10	7,095 0 5	630 3 8	2,468 7 5
Per mile of railway, corresponding period of previous year ...	...	86 0 0	7 17 3	...	31 13 1	2 15 6	10 16 4
Total to corresponding date of previous year ...	5,000½	19,177 11 4	1,787 19 3	20,048 10	7,095 0 5	630 3 8	2,468 7 5

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week ended 7th January 1871, on 156½ miles open.

		Coaching Traffic		Mds. Strs.	Merchandise and Mineral Traffic		Total Traffic Receipts
		Rs. As. P.	£ s. d.		Rs. As. P.	£ s. d.	
Total traffic for the week ...	27,887½	18,168 10 9	1,481 12 6	105,031 26	25,027 3 10	2,294 8 5	3,775 10 3
Or per mile of railway ...	178	116 7 9	9 5 4	675 0	159 14 5	14 13 2	174 12 6
For previous weeks of half year ...	...	...	...	...	...	...	...
Total for 1 week ...	27,887½	18,168 10 9	1,481 12 6	105,031 26	25,027 3 10	2,294 8 5	3,775 10 3
COMPARISON.							
Total for corresponding week of previous year ...	25,803½	15,728 4 6½	1,259 3 3	68,964 31½	9,714 2 11	880 0 4	2,148 12 7
Per mile of railway, corresponding week of previous year ...	165	123 3 3	11 9 2	435 0	62 15 5	7 17 2	15 19 5
Total to corresponding date of previous year ...	28,908½	15,728 4 6½	1,259 3 3	68,964 31½	9,714 2 11	880 0 4	2,148 12 7

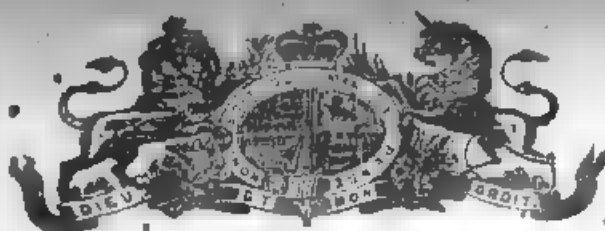
CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Traffic for week ended 7th January 1871, on 28 miles open.*

		Coaching Traffic		Mds. Strs.	Merchandise and Mineral Traffic		Total Traffic Receipts
		Rs. As. P.	£ s. d.		Rs. As. P.	£ s. d.	
Total traffic for the week ...	8,028	1,355 4 9	125 12 7	7,594 10	231 9 3	25 9 2	144 7 8
Or per mile of railway ...	287	48 3 10	4 9 8	270 33	8 0 0	0 10 9	5 8 5
For previous 16 weeks of half year ...	76,518½	12,464 3 9	1,248 8 6	128,803 17	5,107 7 3	519 15 11	1,765 3 6
Total for 16 weeks ...	81,576½	12,740 3 6	1,374 1 0	136,407 38	5,438 0 0	545 4 2	1,817 5 1
COMPARISON.							
Total for corresponding week of previous year ...	4,530½	864 13 3	75 7 1	9,803 23	305 7 6	36 0 0	106 7 1
Per mile of railway, corresponding week of previous year ...	162	30 6 5	2 10 0	335 0	10 16 7	1 0 0	3 15 0
Total to corresponding date of previous year ...	60,759	11,763 3 0	1,078 0 12	128,163 23	4,890 12 8	448 0 0	1,526 12 4

No. 5

1871



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, FEBRUARY 1, 1871.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT, separately, on payment of six Rupees per annum if delivered in Calcutta, or twelve Rupees if sent by Post.

Proceedings of the Council of the Lieutenant-Governor of Bengal for the purpose of making Laws and Regulations.

Saturday, the 28th January 1871.

Present:

• HIS HONOR THE LIEUTENANT-GOVERNOR OF BENGAL, *presiding.*

T. H. COWIE, Esq., *Advocate-General,*
THE HON'BLE ASHLEY EDEN,
A. MONK, Esq., C.B.,
A. R. THOMPSON, Esq.,
V. H. SCHALCH, Esq.,
MOULVI ABDOL LUTHEF KHAN BAHADUR,

T. M. ROBINSON, Esq.,
F. F. WYMAN, Esq.,
BABOO JOTEENDRO MOHUN TAGORE,
T. H. WORDIE, Esq.,
AND
BABOO DIGUMBE MITTAR.

RECOVERY OF LAND REVENUE IN ASSAM.

MR. RIVERS THOMPSON, in moving for leave to bring in a Bill "for the recovery of land revenue and the mutation of names in Assam," said he would explain briefly the circumstances which made necessary a recourse to legislation on this subject. It had been for some time under the consideration of the Government to frame rules for the revenue administration of the Assam province. In Assam the whole proprietary right in the soil might be said to be vested in the Government, and the system in force since our acquisition of that province had been to make an annual settlement directly with the ryots for the lands in the villages occupied by them. For making these settlements, as well as for collecting the Government demands, a class of agents termed "mouzadars" were employed in every district, who did not necessarily hold any interest in the soil themselves, but who were employed much in the same manner as tehsildars in the north-west provinces, in arranging for the settlement of villages, and in the realization of the Government revenue. For such duties they received a percentage on the collections made by them on behalf of Government. These mouzadars were either in charge of a single village, if the village was a large one; or of a circle of villages, if the villages were small. As far as he (Mr. Thompson) understood, the practice had been, on the occurrence of a default in the payment of revenue, for the mouzadar to report the circumstances of the case to the district officer, who thereupon proceeded to summon the defaulter, and after a certain allowed time if the money was not paid in, to attach the property of the defaulter, or to arrest and imprison him. There was reason to believe that under the light assessment which prevailed in Assam, the Government demand was punctually settled, and resort to such measures had very seldom been found necessary. It might, however, be noted that the procedure under which the authorities acted in cases of arrears of revenue, even if it was uniform throughout the province, had this defect, that it had never received the sanction of the legislature, and was merely followed out under rules of practice which had been in force for many years.

This was ascertained more precisely on the Lieutenant-Governor's recent visit to Assam, when the general rules submitted by the commissioner for the revenue administration of the province received the sanction of the Lieutenant-Governor as being passable by the executive Government. These referred generally to the appointment and removal of the mouzadars, the procedure in making the yearly settlements, and the determination of the rates of assessment. It was, however, pointed out to the commissioner that the practice under which, in default of payment of the Government demand, recourse was had to fine and imprisonment, could not be enforced without law. Accordingly a reference was made to the local officers, and to the rules prepared by the commissioner and revised by the Board of Revenue, embodying with some slight modifications the procedure now in force, it was proposed to give legal sanction by an Act of this council. Occasion had been taken, on the recommendation of the local authorities, to add to the Bill certain sections, prescribing the course to be observed in cases connected with the mutation of names. It was found to be a not uncommon practice for a ryot to resign his holding during the currency of a settlement without giving any notice to the district officers. Also, on the occasion of the death or absence of a ryot, other persons came forward to take possession of the vacated lands, and in many instances without any right to do so. It was therefore thought proper to legalize by registration all transfers of holdings which a ryot might wish to relinquish, and provision would be made on the subject in the present Bill.

If leave was given to bring in the Bill, he would take an early opportunity to explain the form which it was proposed to give it.

The motion was agreed to.

RECOVERY OF FINES.

MOULVI ABDOL LUTEEF moved for leave to bring in a Bill "to facilitate the recovery of fines imposed in Bengal." In doing so he said he begged to state the circumstances under which he was induced to propose the introduction of the Bill, and the objects proposed to be attained by the same. By section 4 of Act V. of 1867 of this Council, passed on the 30th of May of that year, the provisions of sections 63 to 70 of the Indian Penal Code, and of section 61 of the Code of Criminal Procedure, were made applicable to all fines which might be imposed under the authority of any Act thereafter to be passed by this Council, but the provisions of the sections of the Penal Code which he had mentioned were not made to apply to fines imposed under the authority of any Act the Council passed previously to the passing of that Act. His object was to get an Act passed by which this difficulty might be removed, for, as he would presently explain, considerable difficulty had been experienced by judicial and executive authorities in enforcing penalties imposed under the authority of Acts passed previously to June 1867. As an illustration, he would mention that the municipal commissioners for the suburbs of Calcutta had found it exceedingly difficult—nay, almost impossible—to carry out the provisions of Act VII. of 1865 for the better regulation of slaughter-houses. The result was that the Act in question had proved perfectly powerless. That Act provides penalties on persons using as a slaughter-house places not licensed as such, and so forth. It had been found that two of the largest slaughter-houses in the suburbs, which were the property of wealthy men, had been given on leases to men of straw, and these latter were held to be the parties who were actually using them within the meaning of that Act. These men had applied for licenses and had been refused; but notwithstanding such refusal they had, in defiance of the law, been openly using these slaughter-houses, and on being convicted for a breach of the provisions of the Act and sentenced to pay heavy fines, it was found that they had no movable property which could be distrained and sold for the recovery of the fines under the provisions of section 61 of the Code of Criminal Procedure, which was the only means provided for the realization of such fines, and the result was that the slaughter-houses in question were to the present moment carried on in full vigour in open defiance of the law, for the law was quite incapable of enforcing its penalties.

It seemed useless to pass an Act and make a breach of its provisions punishable by fines if there be no means to enforce the penalties attached to the offence. He thought that this difficulty would be met by passing a short Act of the nature he had proposed, and he therefore begged to move for leave to bring in this bill.

The motion was agreed to.

The Council was adjourned to Saturday, the 4th February.

Report on the Aloakhooa Mela.

From J. H. RAVENSHAW, Esq., Officiating Collector and Magistrate of Dinagepore, to the Commissioner of Revenue, Rajshahye Division, Berhampore,—(No. 1501., dated Camp Mohipaul, the 17th December 1870.)

1. I have the honor to submit the following report on the Aloakhooa mela which is just concluded.

2. This fair takes place annually at the above-mentioned place. It has now been established for some years, and of late has greatly increased in proportion, and bids fair to rival the well known Nekmard mela. It commences at the full moon in Kartick this year, falling on the 8th November. It is held on the property of Baboo Ramprosad Roy.

3. I determined this year on visiting it to institute such sanitary measures as were practicable. I reached the fair on the 7th November with the district superintendent, and found that inspector Huri Churun had carried out fully the orders I had given him on the subject.

4. In the first place, broad streets were marked out with flags from north to south and east to west, each from 24 to 30 feet wide. All booths and shops were erected on these lines in regular order, and no encroachments allowed. Latrines were provided to leeward at some distance, and all nuisances within a marked limit were specially forbidden; proclamation to this effect being notified by beat of drum every few hours. As the fair increased in dimension the roads were extended on all directions, thereby affording a plentiful and free current of air. The municipal darogah, with twelve coolies and eight nighters, looked after the conservancy. The most scrupulous cleanliness was observed. The streets were kept constantly clean and swept frequently, and all offal and dirt collected and immediately buried. I remained at the fair till the 13th, and even after so many days not the slightest bad smell was observable, notwithstanding the vast concourse of people and the thousands of head of cattle present. I visited every portion of the fair twice daily, and the most perfect order prevailed. Some difficulty at first resulted in enforcing the conservancy arrangements, and small fines of from two to eight annas were inflicted in many cases before the necessity of using the latrines was fully comprehended and the determination to prevent encroachments on the roads understood. A hospital was erected on a convenient spot, which was presided over by native doctor Ruheem Buksh.

5. Not a single death took place during the fair among the large concourse, estimated at from 60 to 80,000 people; no sickness of any kind of a severe nature occurred; and even among the cattle I could hear of no loss. I had a watch carefully kept on all cattle entering the mela, as the foot and mouth disease had been to some extent prevalent in the district, and, I had heard, very servely towards Darjeeling, though no cattle were stopped as no case of disease shewed itself.

6. The order preserved was very creditable to the police and also to the populace. Inspector Huri Churun exerted himself to the utmost, and deserves great credit. The whole of the arrangements were under his immediate supervision.

7. The gang of bad characters usually attached to such gatherings were either absent or deterred by the police arrangements from carrying out their predatory habits; but three cases of petty theft were brought before me, and the prisoners in each were convicted and flogged in the centre of the fair. One case of personation of a constable took place; but the plaintiff was induced to abscond by some parties from Purneah connected with the prisoner. The mela is on the Purneah borders, and next year I think the Purneah police should attend and assist in keeping order.

8. Baboo Tarai Prosad Rai, the landowner, gave every assistance in a most willing manner. He thoroughly appreciated the advantages of the measures undertaken, and has supplied me with all the statistical information that is alluded to in this report. He has promised to make the roads roughly marked out this year permanent, so that for the future there may be no further necessity for laying them out. He also wishes to make a road to the mela from the imperial road about five miles distant, but has been deterred from doing so by the other zemindars through whose lands it will pass. This matter will probably be the subject of a future communication. I did not think proper to take any measures regarding prostitutes, as I had no European medical officer present. Some few were at the mela, and were informed they would not be molested as long as they conducted themselves quietly and with outward propriety.

9. I will now pass to the more statistical part of the report. The general part of the fair, by which I allude to the booths and shops, occupied probably two miles of road. All were carefully arranged according to their trades. The extension of the roads through the cattle pastures was probably double. Very large sales of cloth, beads, and brass utensils, took place.

10. Of elephants brought for sale, most were quite small but realized very large sums. The minutest animal, scarce able to carry his mahout, fetched Rs. 1,100.

11. The horse mart was very small, and no animals worth purchase were present; but the native tatoo were very numerous, and found ready sales. The cattle market was more extensive than the whole of the rest of the fair, and covered, I should think, at least a square mile of land. Very ready sale was found for bullocks, which realized various prices from Rs. 15 to 60. Of buffaloes also there was a fine show, but milch cows were neither numerous nor remarkable for their excellence.

12. The accompanying statement will show the estimated number of all products and live-stock attending the fair and sold, with a rough calculation of the prices realized. The shop-keepers paid the zemindar four and half annas per hut for their shops, and vendors of cattle so much on their sales. All sales were duly registered by the zemindar. The total absence of receipt stamps attracted my attention. I think this matter should be rigorously enforced for the future, and a vendor sent to the fair with a full supply for distribution.

13. All expenses for conservancy and medical aid were charged on the zemindars, who readily paid them. A memorandum is attached shewing the entire cost.

No.	Description of shops.	Number of shops.	Value of things brought for sale.	Quantity of things, and number of animals brought for sale.	Value of things sold.	Quantity of things not sold.	Value of things not sold.
			Rs. As. P.		Rs. As. P.		Rs. As. P.
1	Kalan shops	40	1,00,785 0 0	.....	1,84,345 13 0	.....	2,479 5 0
2	Doors merchant shops	11	2,335 0 0	.....	5,898 0 0	.....	1,087 0 0
3	Kattiaranchies ditto	11	2,785 0 0	.....	2,548 0 0	.....	245 0 0
4	Shops for selling fried rice and tart	45	8,383 13 0	.....	2,001 13 0	.....	271 0 0
5	Shops of wooden heads	25	576 0 0	.....	407 4 0	.....	28 12 0
6	Illooka shops	27	1,838 0 0	.....	1,808 8 0	.....	127 8 0
7	Illooka ditto	40	1,234 4 0	.....	1,124 8 0	.....	80 12 0
8	Bunko, or shell anklets	18	1,148 0 0	.....	1,039 4 0	.....	108 12 0
9	Tailors' shops	25	2,213 0 0	.....	2,084 0 0	.....	131 8 0
10	Shoe ditto	51	3,951 0 0	.....	5,157 8 0	.....	465 8 0
11	Blanket ditto	4	3,304 0 0	.....	3,069 0 0	.....	235 0 0
12	Quilt ditto	23	1,000 0 0	.....	1,815 0 0	.....	179 0 0
13	Taloo and horses	1,258	481,335 0 0	534	20,862 0 0	489	10,443 0 0
14	Elephants	189	1,01,965 0 0	39	31,356 0 0	161	1,30,000 0 0
15	Buffaloes and cows	11,455	2,00,065 0 0	1,966	51,364 0 0	8,889	1,23,660 15 0
16	Buffaloes	685	10,628 11 0	563	0,623 11 0	53	1,000 0 0
17	Wooden things	391	1,539 0 0	.....	1,119 0 0	.....	127 0 0
18	Iron basins	7	792 0 0	.....	711 0 0	.....	71 0 0
19	Spade	11	1,175 0 0	.....	1,460 0 0	.....	96 0 0
20	Spices	61	8,653 0 0	.....	8,603 0 0	.....	52 0 0
21	Brass and Belminal plates	28	53,154 0 0	.....	51,823 8 0	.....	1,324 2 0
22	Sundry articles	32	5,734 0 0	.....	5,603 0 0	.....	123 0 0
23	Moud shops	45	1,067 0 0	.....	911 8 0	.....	175 8 0
24	Obur, or a kind of anklets	15	174 12 8	.....	509 4 0	.....	25 4 0
			8,92,745 0 0	.....	8,00,681 14 0	.....	3,94,103 5 0
	* Big chests	153					
	Cart wheels	675					
	Khat	1					
	Palkee	1					
	Chowkee	23					

Length of the fair from east to west is 25 russees or $5\frac{1}{2}$ of a mile.
Breadth from north to south is 30 russees, or 6 of a mile; or 480 square russees; or 10 of a square mile.

List of expenditure incurred on account of sanitation and conservancy purposes at Alcockhoo Fair.

CONSERVANCY.				Rs. As. P.
Salary of municipal coolies employed at the fair	...	...	...	40 8 0
Ditto of mehters ditto ditto	...	...	...	23 10 0
Ditto of a duffadar to guide the mehters	...	...	...	4 8 0
Travelling allowance of conservancy darogah	...	...	...	30 0 0
Halting allowance of ditto	...	...	...	8 10 0
				102 4 0
SANITATION.				
Price of medicine	...	...	...	20 3 0
Travelling allowance of native doctor	...	...	...	30 0 0
Halting allowance of ditto	...	...	...	7 4 0
				57 7 0
Total	...	...	...	159 11 0

* The accounts being with the native doctor on leave, these figures are given in accordance with the distance travelled and the days halted by the conservancy darogah.

Meteorological Telegraphic Report for the period 22nd to 28th January 1871.

STATIONS.	Date.	Hour.	Barometer reduced to 32°.	Barometer reduced to sea-level.	THERMOMETER.		Humidity at 54° = 100.	Wind.		Sea.	Clouds.	Weather initials.
					Dry.	Wet.		Direction.	Velocity.			
CALCUTTA.	Jan.											
	22nd	10	30.092	30.042	88.0	80.5	69	W by N	...	...	...	b b
		16	30.017	29.936	75.9	62.2	44	W	...	...	...	b b
	23rd	10	30.005	29.904	70.5	62.2	59	W S W	...	...	...	b b
		16	30.032	29.950	78.0	65.0	46	W	...	...	...	b b
	24th	10	30.054	30.073	72.0	64.5	64	W by S	...	...	...	b b
		16	30.047	30.005	70.0	65.0	43	W S W	...	...	...	b b
	25th	10	30.062	30.081	72.4	67.4	80	S W	...	...	...	b b
SACCOOR-Island.		16	30.023	29.941	80.5	67.7	67	S W	...	...	...	b b
	26th	10	30.119	30.138	70.7	61.7	67	N by E	...	...	...	b b
		16	30.014	30.031	75.5	69.8	35	W N W	...	...	...	b b
	27th	10	30.142	30.161	69.0	57.0	47	W N W	...	...	...	b b
		16	30.096	30.014	75.0	67.3	36	W	...	...	...	b b
	28th	10	30.119	30.131	63.0	56.3	65	W	...	...	...	b b
		16	30.000	29.985	73.8	58.5	33	W by S	...	...	...	b b
CHITTAGONG.	22nd	10	30.041	30.047	71	68	75	N W	3.4°	...	...	b b
		16	30.037	29.943	78	69	81	S W	4.0°	...	...	b b
	23rd	10	30.078	30.074	72	64	80	W	3.6°	...	...	b b
		16	30.065	29.961	79	73	60	W S W	10.4°	C	...	b b
	24th	10	30.077	30.043	73	72	55	W N W	3.2°	...	...	b b
		16	30.072	29.978	78	73	77	S W	12.9°	C	...	b b
	25th	10	30.073	30.078	70	73	80	S W	10.2°	...	...	b b
		16	30.070	29.966	71	73	78	E S W	11.6°	C	...	b b
MADRAS.	26th	10	30.121	30.127	79	69	80	N N W	10.2°	...	...	b b
		16	30.121	30.096	80	80	44	N	13.5°	...	...	b b
	27th	10	30.148	30.154	70	61	67	N E	8.0°	...	...	b b
		16	30.019	30.025	78	65	46	N N W	7.7°	...	...	b b
	28th	10	30.131	30.137	73	65	66	N W	4.7°	...	...	b b
		16	30.077	29.963	79	65	43	S W	5.4°	...	...	b b
COCHIN.	22nd	10	30.025	30.037	78	61	63	N	4.2°	...	...	b b
		16	30.007	29.910	70	67	50	W S W	8.0°	...	...	b b
	23rd	10	30.075	30.040	72	67	76	E	3.4°	...	...	b b
		16	30.023	29.935	78	66	67	W N W	8.3°	...	...	b b
	24th	10	30.013	30.125	74	67	67	E	3.0°	...	...	b b
		16	30.073	30.066	78	60	68	W S W	6.8°	...	...	b b
	25th	10	30.093	30.109	73	68	78	N E	8.5°	...	...	b b
		16	30.074	29.864	78	69	61	W S W	7.7°	...	...	b b
AGRA.	26th	10	30.025	30.133	73	67	71	N	4.5°	...	...	b b
		16	30.033	30.016	70	70	61	S W	7.7°	...	...	b b
	27th	10	30.027	30.141	73	60	45	N N E	5.2°	...	...	b b
		16	30.070	29.991	70	63	38	W	8.8°	...	...	b b
	28th	10	30.013	30.137	70	60	52	N E	5.0°	...	...	b b
		16	30.017	29.980	73	65	65	W S W	7.1°	...	...	b b
CUTTACK.	22nd	10	30.047	30.077	78	71	66	N by W	4°	...	...	b c
		16	30.038	29.966	83	70	64	N by E	10°	...	...	b c
	23rd	10	30.067	30.007	80	63	51	N N E	6°	...	...	b c
		16	30.056	29.946	80	66	60	S W	6°	...	...	b c
	24th	10	30.078	30.093	77	68	60	N W	7°	...	...	b c
		16	30.025	29.955	81	69	51	N N	12°	...	...	b c
	25th	10	30.049	30.078	80	70	68	N N W	12°	...	...	b c
		16	30.037	29.947	80	70	68	N	14°	...	...	b c
BOMBAY.	26th	10	30.093	30.138	78	71	62	N W	18°	...	...	b c
		16	30.092	30.093	80	71	62	N	12°	...	...	b c
	27th	10	30.104	30.136	84	73	56	N by W	9°	...	...	b c
		16	30.007	29.937	82	71	56	N	13°	...	...	b c
	28th	10	30.070	30.064	70	60	59	W N W	...	...	...	Fair.
		16	30.038	29.922	77	61	34	W N W	...	...	...	Fair.
	29th	10	30.033	30.077	77	63	41	N N W	...	...	...	Fair.
		16	30.081	29.964	77	63	41	E	...	...	...	Fair.
SINGAPORE.	24th	10	30.015	30.110	68	61	70	N W	...	...	...	Fair.
		16	30.079	29.962	77	61	45	N N E	...	...	...	Fair.
	25th	10	30.020	30.104	60	63	70	W S W	...	...	...	Fair.
		16	30.063	29.948	61	63	61	N N W	...	...	...	Fair.
	26th	10	30.077	30.141	70	63	65	N N W	...	...	...	Fair.
		16	30.021	30.044	80	64	37	N W	...	...	...	Fair.
	27th	10	30.003	30.148	73	60	67	N N E	...	...	...	Fair.
		16	29.950	30.023	77	66	40	E	...	...	...	Fair.
PENANG.	22nd	10	30.075	30.091	71	67	80	S S	1	...	...	b b
		16	30.019	29.934	77	70	68	W	1	...	...	b b
	23rd	10	30.045	30.051	71	68	78	N E	1	...	...	b b
		16	30.018	29.934	77	71	78	S S W	1	...	...	b b
	24th	10	30.067	30.073	70	67	84	N N	1	...	...	b b
		16	30.039	29.948	70	71	66	W S W	1	...	...	b b
	25th	10	30.057	30.073	70	67	84	E	1	...	...	b b
		16	30.036	29.951	78	70	66	W	1	...	...	b b
KUALA LUMPUR.	26th	10	30.091	30.103	69	64	70	E	1	...	...	b b
		16	30.096	30.001	78	76	50	N W	1	...	...	b b
	27th	10	30.087	30.113	71	60	75	N	1	...	...	b b
		16	30.053	29.968	79	60	58	N W	1	...	...	b b
	28th	10	30.041	30.107	65	60	63	N E	1	...	...	b b
		16	30.051	29.980	76	65	52	N W	1	...	...	b b
	29th	10	30.051	29.980	76	65	52	N W	1	...	...	b b
		16	30.051	29.980	76	65	52	N W	1	...	...	b b

* Velocity of wind in miles per hour.

CALCUTTA.
The 28th January 1871.HENRY F. BLANFORD,
Meteorological Reporter to the Government of Bengal.

**Weekly Report of Rainfall compiled at the Meteorological
Reporter's Office.**

DIVISION.	Stations.	Rainfall from 9th to 16th Jan. 1871.	Rainfall from 16th to 22nd Jan. 1871.	RAIN FROM 1ST JANUARY 1871.		REMARKS.
				Rain.	Up to Date.	
CUTTACK.	Chittack { Telegraph Office ...	Nil	Nil	Nil	22nd Jan. 1871.	
	Chittack { Jail ...	ditto	ditto	ditto	ditto.	
	Palas Pount ...	ditto	Not received	ditto	16th Jan. 1871.	
	Jagipore ...	Not received	ditto	ditto	8th Jan. 1871.	
	Kendrapatnah ...	ditto	ditto	ditto	ditto.	
	Jugutongpore ...	ditto	ditto	ditto	ditto.	
	Bambulpore ...	ditto	ditto	...	...
	Halasore ...	Nil	Nil	Nil	22nd Jan. 1871.	Not received 2nd to 8th Jan.
	Bhadruck ...	ditto	Not received	ditto	16th Jan. 1871.	
CHOTA NAGPORE.	Pooner ...	ditto	Nil	ditto	22nd Jan. 1871.	
	Kharandah ...	ditto	Not received	ditto	16th Jan. 1871.	
	Hasarebhangh ...	ditto	Nil	ditto	22nd Jan. 1871.	
	Barhee ...	ditto	0.01	0.01	ditto.	
	Pachamba ...	ditto	Not received	Nil	16th Jan. 1871.	
	Hanahoe ...	Not received	ditto	ditto	8th Jan. 1871.	Not received 1st January.
	Palanow ...	Nil	ditto	ditto	16th Jan. 1871.	
	Purulia ...	ditto	Nil	ditto	22nd Jan. 1871.	
	Gohindpore ...	Not received	Not received	...	...
PATIL.	Chyabassa ...	Nil	Nil	Nil	22nd Jan. 1871.	
	Patna ...	ditto	0.05	0.05	ditto.	
	Behar ...	ditto	Not received	Nil	16th Jan. 1871.	
	Barh ...	ditto	ditto	ditto	ditto.	
	Dinapore ...	ditto	Nil	ditto	22nd Jan. 1871.	
	Gya ...	ditto	Not received	ditto	16th Jan. 1871.	
	Bharghatty ...	Not received	ditto	...	...
	Kowdah ...	Nil	ditto	Nil	16th Jan. 1871.	
	Arungabad ...	ditto	ditto	ditto	ditto.	
BAGDOUPORE.	Chunparun ...	ditto	ditto	ditto	ditto.	
	Chuprah ...	ditto	Nil	ditto	22nd Jan. 1871.	
	Sewan ...	Not received	Not received	ditto	8th Jan. 1871.	
	Mosuffepore ...	ditto	ditto	ditto	ditto.	
	Duribhagah ...	Nil	Nil	ditto	22nd Jan. 1871.	
	Bectamaroo ...	ditto	Not received	ditto	16th Jan. 1871.	
	Tajpore ...	ditto	Nil	ditto	22nd Jan. 1871.	
	Aitah ...	ditto	ditto	ditto	ditto.	
	Buzar ...	ditto	ditto	ditto	ditto.	
BAGDOUPORE.	Sasseran ...	Not received	Not received	...	...
	Bhuhhooah ...	ditto	ditto	...	...
	Benares ...	Nil	ditto	Nil	16th Jan. 1871.	
	Bhagulpore ...	ditto	Nil	ditto	22nd Jan. 1871.	Not received 2nd to 8th Jan.
	Mudbepoorah ...	ditto	ditto	ditto	ditto.	
	Banks ...	Not received	Not received	...	...
	Moughyr ...	Nil	Nil	Nil	22nd Jan. 1871.	
	Jamoori ...	ditto	Not received	ditto	16th Jan. 1871.	Not received 1st to 8th Jan.
	Begoorari ...	Not received	ditto	...	...
BAGDOUPORE.	Deoghur ...	Nil	Nil	Nil	22nd Jan. 1871.	
	Parnah ...	ditto	ditto	ditto	ditto.	
	Rampore Beaulah ...	ditto	ditto	ditto	ditto.	
	Nattore ...	ditto	ditto	ditto	ditto.	
	Bograh ...	ditto	ditto	ditto	ditto.	
	Dinagapore ...	ditto	ditto	ditto	ditto.	
	Maldah ...	ditto	ditto	ditto	ditto.	
	Berhampore ...	ditto	ditto	ditto	ditto.	
	Pobna ...	ditto	ditto	ditto	ditto.	
BAGDOUPORE.	Commercolly ...	ditto	Not received	ditto	16th Jan. 1871.	Not received 2nd to 8th Jan.
	Serajgunge ...	Not received	ditto	...	...
	Rungpore ...	Nil	ditto	Nil	22nd Jan. 1871.	Not received 2nd to 8th Jan.
	Titalya ...	ditto	0.01	0.01	ditto.	
	Bardwan ...	ditto	Nil	Nil	ditto.	
	Cutwa ...	ditto	Not received	ditto	16th Jan. 1871.	
	Culina ...	Not received	Nil	ditto	22nd Jan. 1871.	Not received 8th to 16th Jan.
	Bood-Bood ...	Nil	Not received	ditto	16th Jan. 1871.	
	Banccorah ...	ditto	Nil	ditto	22nd Jan. 1871.	
BAGDOUPORE.	Banccogunge ...	ditto	ditto	ditto	ditto.	
	Sooree ...	ditto	Not received	ditto	16th Jan. 1871.	
	Hooghly ...	ditto	Nil	ditto	22nd Jan. 1871.	
	Howrah ...	ditto	ditto	ditto	ditto.	Not received 2nd to 8th Jan.
	Mishnapore ...	ditto	ditto	ditto	ditto.	
	Canta ...	ditto	Not received	ditto	16th Jan. 1871.	
	Gurbettia ...	Not received	ditto	ditto	8th Jan. 1871.	
	Tumlook ...	Nil	ditto	ditto	16th Jan. 1871.	Not received 1st January.
BAGDOUPORE.	Kishnaghar ...	ditto	Nil	ditto	22nd Jan. 1871.	
	Bongong ...	ditto	ditto	ditto	ditto.	
	Manighal ...	ditto	ditto	ditto	ditto.	
	Melhapore ...	ditto	Not received	ditto	16th Jan. 1871.	
	Chowdabagh ...	Not received	ditto	...	...
	Koushteah ...	Nil	Nil	Nil	22nd Jan. 1871.	
	Jannay ...	ditto	ditto	ditto	ditto.	
	Prango Island ...	ditto	ditto	ditto	ditto.	
	Calcutta ...	ditto	ditto	ditto	ditto.	
PRESIDENCY.	Alipore { Jail ...	ditto	ditto	ditto	ditto.	
	Alipore { Dispensary ...	ditto	ditto	ditto	ditto.	
	Barrackpore ...	ditto	Not received	ditto	16th Jan. 1871.	
	Dum Dum ...	ditto	ditto	ditto	ditto.	
	Barasat ...	ditto	ditto	ditto	ditto.	
	Sakharah ...	ditto	ditto	ditto	ditto.	
	Kusserbent ...	ditto	ditto	ditto	ditto.	
	Diamond Harbour ...	ditto	ditto	ditto	ditto.	
	Barripore ...	ditto	ditto	ditto	ditto.	

DIVISIONS.	STATIONS.	Rainfall from 1st to 15th Jan. 1871.	Rainfall from 16th to 31st Jan. 1871.	RAIN FROM 1st JANUARY 1871.		REMARKS.
				Rain.	Up to date.	
Dacca.	Dacca { Telegraph Office ...	Not received	Not received	Nil	15th Jan. 1871.	
	Dacca { Jail ...	Nil	ditto	Nil	22nd Jan. 1871.	
	Burienaul ...	ditto	ditto	ditto	ditto.	
	Dowlat Khan ...	ditto	ditto	ditto	ditto.	
	Perdaspore ...	ditto	ditto	ditto	ditto.	
	Madaripore ...	ditto	ditto	ditto	ditto.	
	Farridpore ...	ditto	ditto	ditto	ditto.	
	Mymensingh ...	ditto	ditto	ditto	ditto.	
	Jamulpore ...	ditto	ditto	ditto	ditto.	
	Atterah ...	Not received	Not received	Nil	15th Jan. 1871.	
	Rishergunge ...	Nil	ditto	ditto	22nd Jan. 1871.	
Chittagong.	Sylhet ...	ditto	Nil	ditto	15th Jan. 1871.	
	Gachbar ...	ditto	Not received	ditto	15th Jan. 1871.	
	Aenakhul Hylakandy ...	Not received	ditto	...	...
	Chittagong { Telegraph Office ...	Nil	Nil	Nil	22nd Jan. 1871.	
	Chittagong { Jail ...	ditto	ditto	ditto	ditto	
	Cox's Bazar ...	Not received	Not received	...	...
	Trancomata Hill ...	ditto	ditto	Nil	8th Jan. 1871.	Not received 2nd to 8th Jan.
	Naukhally ...	Nil	Nil	ditto	22nd Jan. 1871.	Ditto.
	Tipperah ...	ditto	ditto	ditto	ditto	
	Brahmanbariah ...	ditto	Not received	ditto	15th Jan. 1871.	
	Akhyab ...	ditto	Nil	ditto	22nd Jan. 1871.	
COCHIN HILLS.	Buzu ...	ditto	ditto	ditto	ditto.	
	Govindpurah ...	ditto	Not received	ditto	15th Jan. 1871.	
	Dhobree ...	Not received	ditto	ditto	...	
	Toora (Garu Hills) ...	Nil	ditto	Nil	15th Jan. 1871.	
	Darjeeling { Telegraph Office ...	Not received	ditto	...	...
	Darjeeling { Jail ...	ditto	ditto	...	...
	Runghee ...	ditto	ditto	...	...	Not recorded.
	Teral ...	ditto	ditto	...	...
	Fulacottah ...	Nil	ditto	Nil	15th Jan. 1871.	
	Julpigorie ...	ditto	Nil	ditto	22nd Jan. 1871.	
	Buda ...	ditto	ditto	ditto	ditto.	
Assam.	Tezpur ...	ditto	Not received	ditto	15th Jan. 1871.	
	Nowgong ...	Not received	ditto	...	...
	Burpottah ...	ditto	ditto	...	...
	Uzunhatti ...	Nil	ditto	Nil	15th Jan. 1871.	
	Soelungor ...	ditto	ditto	0.05	ditto.	
	Golaghat ...	Not received	ditto	Nil	8th Jan. 1871.	
	Nazeerah ...	Nil	ditto	0.03	15th Jan. 1871.	
	Debrooghur ...	Not received	ditto	Nil	8th Jan. 1871.	Not received 1st January.
	Suddya ...	ditto	ditto	ditto	ditto.	
	Shillong ...	Nil	ditto	ditto	15th Jan. 1871.	
	Jowai ...	ditto	ditto	ditto	ditto.	
	Santogoodah ...	Not received	ditto	ditto	8th Jan. 1871.	

HENRY F. BLANFORD,

Meteorological Reporter to the Govt. of Bengal.

CALCUTTA,

The 28th January 1871.

**Abstract of the Results of the Hourly Meteorological Observations taken
at the Surveyor-General's Office, Calcutta, in the month of
December 1870.**

LATITUDE $22^{\circ} 33' 1''$ north, longitude $88^{\circ} 20' 34''$ east. Height of the cistern of the
standard barometer above the sea level, 18.11 feet.

MONTHLY RESULTS.

	Inches.
Mean height of the barometer for the month	30.028
Max. height of the barometer occurred at 10 A.M. on the 15th	30.184
Min. height of the barometer occurred at 3 P.M. on the 21st	29.789
Extreme range of the barometer during the month	0.395
Mean of the daily max. pressures	30.101
Ditto ditto min. ditto	29.969
Mean daily range of the barometer during the month	0.132
<hr/>	
Mean dry bulb thermometer for the month	80.5
Max. temperature occurred at 3 P.M. on the 31st	80.1
Min. temperature occurred at 6 and 7 A.M. on the 20th	57.0
Extreme range of the temperature during the month	23.1
Mean of the daily max. temperature	75.6
Ditto ditto min. ditto	59.1
Mean daily range of the temperature during the month	16.5
<hr/>	
Mean wet bulb thermometer for the month	60.6
Mean dry bulb thermometer above mean wet bulb thermometer	5.9
Computed mean dew-point for the month	55.9
Mean dry bulb thermometer above computed mean dew-point	10.6
<hr/>	
Mean elastic force of vapour for the month	Inches. 0.456
<hr/>	
Mean weight of vapour for the month	Troy grain. 5.05
Additional weight of vapour required for complete saturation	2.14
Mean degree of humidity for the month, complete saturation being unity	0.70
Mean max. solar radiation thermometer for the month	130.2
<hr/>	
Rained no day.—max. fall of rain during 24 hours	Inches. Nil
Total amount of rain during the month	Nil
Total amount of rain indicated by the gauge* attached to the anemometer during the month	Nil
Prevailing direction of the wind	W N W, W by N & W

* Height 70 feet 10 inches above ground.

GOPERNATH SEN,
In charge of the Observatory

The 28th January 1871.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY—MAIN LINE.

Approximate Return of Traffic for week ended 14th January 1871, on 1,279½ miles open.

	COACHING TRAFFIC.			MERCHANTS AND MINERAL TRAFFIC.				Total Traffic Receipts.
	Number of passengers.	Coaching receipts.		Weight carried.	Receipts.			
		Rs. As. P.	£ s. d.	Mds. Strs.	Rs. As. P.	£ s. d.	£ s. d.	
Total traffic for the week ...	24,873½	1,43,100 4 4	13,825 2 18	430,037 0	8,39,257 3 3	32,457 15 8	66,425 13 4	
Or per mile of railway ...	19½	111 1 0	10 3 7	336 568 30	274 7 0	25 6 11	35 10 5	
For previous 1 week of half year ...	27,848	1,42,303 10 2	13,923 0 10	586,568 30	8,71,308 6 8	34,036 2 7	67,553 5 5	
Total for 2 weeks ...	52,721½	2,85,403 0 0	27,748 3 8	1,016,605 30	17,10,565 0 4	66,493 4 1	133,978 8 9	
COMPARISON.								
Total for corresponding week of previous year ...	134,858½	3,21,809 14 7	30,687 4 1	744,963 10	4,36,834 2 10	68,414 14 0	69,414 14 10	
Per mile of railway, corresponding week of previous year ...	106	275 13 4	20 5 3	564 963 10	236 15 5	30 7 7	60 15 4	
Total to corresponding date of previous year ...	258,484	3,34,907 15 0	34,490 14 8	15,12,983 0	8,91,178 0 2	81,783 16 8	139,338 11 4	

EAST INDIAN RAILWAY—JUBBULPORE LINE.

Approximate Return of Traffic for week ended 14th January 1871, on 223 miles open.

		Rs. As. P.	£ s. d.	Mds. Strs.	Rs. As. P.	£ s. d.	£ s. d.
Total traffic for the week ...	7,190½	24,247 13 6	2,323 14 4	63,340 10	15,738 0 6	1,717 7 7	3,040 1 11
Or per mile of railway ...	32	108 11 0	9 10 4	284 0 0	70 0 0	7 14 0	17 13 4
For previous 1 week of half year ...	8,823	13,244 4 0	1,177 7 11	67,440 0	14,224 0 0	1,385 11 4	3,073 13 2
Total for 2 weeks ...	11,913½	37,491 3 6	3,500 3 3	130,780 10	29,962 0 6	3,102 12 11	6,113 1 5
COMPARISON.							
Total for corresponding week of previous year ...	10,607½	42,025 3 1	4,405 13 7	65,007 10	15,780 13 10	1,440 14 7	5,240 13 7
Per mile of railway, corresponding week of previous year ...	47	318 0 0	19 15 2	284 0 0	70 10 1	6 9 6	23 6 5
Total to corresponding date of previous year ...	19,000	67,541 4 8	6,143 10 9	71,055 20	23,346 4 7	2,004 4 10	8,280 0 7

* Rs. 2,331-1-8 added, being short included in last week

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week ended 14th January 1871, on 156½ miles open.

		Rs. As. P.	£ s. d.	Mds. Strs.	Rs. As. P.	£ s. d.	£ s. d.
Total traffic for the week ...	24,900½	14,346 10 0	1,306 5 6	64,804 13	15,530 1 10	1,514 5 10	2,830 9 4
Or per mile of railway ...	159	91 0 0	8 5 11	414 0	105 3 11	9 13 6	18 0 0
For previous 1 week of half year ...	27,887½	16,163 10 0	1,441 13 5	106,632 35	26,027 2 10	2,394 2 3	3,773 16 8
Total for 2 weeks ...	52,788	30,512 4 0	2,747 16 11	171,436 34	41,557 3 6	3,908 10 1	6,603 6 0
COMPARISON.							
Total for corresponding week of previous year ...	23,092½	27,073 15 3	2,461 15 7	114,224 24	17,511 7 11	1,614 7 9	4,094 1 4
Per mile of railway, corresponding week of previous year ...	147	220 0 11	15 14 3	724 0	110 3 2	10 5 1	26 3 4
Total to corresponding date of previous year ...	46,001	54,788 4 21	5,759 18 10	228,648 24½	34,522 10 10	3,228 17 1	8,388 13 11

CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Traffic for week ended 14th January 1871, on 28 miles open.

		Rs. As. P.	£ s. d.	Mds. Strs.	Rs. As. P.	£ s. d.	£ s. d.
Total traffic for the week ...	10,792	1,487 8 0	140 14 5	9,329 0	318 13 3	51 17 11	174 13 4
Or per mile of railway ...	385	53 0 4	5 4 9	333 0	11 6 3	1 2 0	6 7 4
For previous 15 weeks of half year ...	54,074½	13,740 5 6	1,274 1 0	106,478 23	5,432 0 4	543 4 2	1,917 5 1
Total for 16 weeks ...	64,866½	15,227 11 0	1,414 15 5	115,807 23	5,750 13 7	575 3 0	2,091 17 5
COMPARISON.							
Total for corresponding week of previous year ...	7,517½	1,144 7 0	104 12 1	11,309 2	372 15 9	34 3 10	130 1 11
Per mile of railway, corresponding week of previous year ...	268	40 14 0	3 14 11	404 0	13 5 2	1 4 5	4 7 4
Total to corresponding date of previous year ...	62,382½	16,371 10 9	1,518 4 0	127,117 24	6,124 11 11	409 10 3	2,220 14 3

No. 6

of 1871



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, FEBRUARY 8, 1871.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT, separately, on payment of six Rupees per annum if delivered in Calcutta, or twelve Rupees if sent by Post.

Proceedings of the Council of the Lieutenant-Governor of Bengal for the purpose of making Laws and Regulations.

Saturday, 4th February, 1871.

Present:

HIS HONOR THE LIEUTENANT-GOVERNOR OF BENGAL, *presiding.*

THE HON'BLE ASHLEY EDEN,
A. R. THOMPSON, ESQ.,
V. H. SCHALCH, ESQ.,

MOULVY ABDOL LUTEEF KHAN BANADOO,

T. M. ROBINSON, ESQ.,
BAROO JOTENDRO MOHUN TAGORE,
AND
BAROO DIGUMBER MITTER.

RECOVERY OF LAND REVENUE IN ASSAM.

MR. RIVERS THOMPSON moved that the Bill to provide for the recovery of land revenue and the mutation of names in Assam be read in Council. He said that the Bill had been prepared from the rules which now regulated the procedure for the recovery of the land assessment in Assam, and they had been amended and revised by the Board of Revenue. The Bill provides that ample time shall be given to defaulters for the payment of their dues before procedure was taken against them on account of their default. If after the month's time allowed for paying in arrears the money had not been paid, measures could be taken by attachment and sale of the defaulter's property, movable and immovable, and then, if necessary, by the arrest and imprisonment of the defaulter for a period not exceeding fourteen days. Special provision had been made for the case of a fraudulent concealment of property, and there was also a section which provided that nothing in the Act should apply to suits between lakheraj-dars and other private land-owners and their tenants. The Bill simply provided for cases where Government ryots owing Government revenue were in the position of defaulters.

Certain sections in the Bill provided for the registration of holdings in cases of transfer either by sale or death, or from any other cause. This provision was intended to provide against cases of not unfrequent occurrence of persons transferring their rights to others who had no right to hold them.

There were a few sections at the end of the Bill relating to remissions of revenue and the punishment of mouzadars for negligence of duty or disobedience of orders, which it was deemed advisable to incorporate in the measure.

These rules were now in operation in Assam; and the fact was, as he had said before, that cases of default very seldom occurred, and recourse to any form of penal procedure very seldom became necessary. But as the procedure was connected with punishment, the imposition of fines and imprisonment, it had been thought advisable that they should be enforced under the authority of an Act of the Legislature.

BAROO JOTENDRO MOHUN TAGORE said he begged to draw attention to certain sections of the Bill which seemed to enunciate a principle which might be exercised very harshly towards defaulters. The Bill proposed to give a power to arrest defaulters after both their real and personal property had been sold for arrears of revenue, and then to incarcerate them for a period

of fourteen days even where there was no fraudulent concealment of property. This, he thought, was too harsh a measure: after a man was sold out of his hearth and home, it was very hard to incarcerate him for fourteen days. It was true that by Act VIII. of 1869 of this Council certain powers were given in cases where ryots became defaulters: but if a ryot, by a verified application, pleaded insolvency, he was at once let off. Under this Bill, however, the ryot would have no means of getting off before the fourteenth day of his incarceration.

MR. SCHALCH said, after what the hon'ble member opposite had observed, he would beg leave to state that, under the present law for the recovery of rents, there was given a power to arrest a defaulter previously to the attachment of his property, or subsequently. In the present case the concession was made that no arrest should be made until it was certified that the property, both movable and immovable, was insufficient to meet the demand. He was not present during the passing of the new rent law, having been in England at the time, and he was not therefore quite conversant with its provisions; but on looking over it he did not see any provision necessitating the immediate release of a defaulter on proof of his insolvency. No doubt if insolvency was proved, the fact would be taken into consideration, and he had no reason to suppose that greater harshness would be exercised towards defaulters in the recovery of revenue in Assam than elsewhere.

BABOO JOTENDRO MOHON TAGORE said he would take leave to explain what he had meant as to the rule relating to the insolvency of a defaulter. The rule to which he referred was not in Act VIII. of 1869 of this Council; but it was a rule that he believed would be enforced in accordance with the procedure of Act VIII. of 1859, the Civil Procedure Code. The Bengal Act VIII. of 1869 enacted that what was not provided for in that procedure should be regulated according to the procedure prescribed by Act VIII. of 1859, and under that provision he thought a defaulter might be released on proof of his insolvency. Then as to the provision of the rent law giving power to arrest a defaulter before attachment of his property, he would submit that that was different from what the present Bill contemplated. The object of that provision evidently was to apply an additional pressure for payment on one who was possessed of property, whereas this Bill proposed to put a man in jail after reducing him to a state of absolute pauperism.

MR. RIVERS THOMPSON said that the observations that had been made would be duly considered by the select committee, to whom the Bill would be referred, when that particular section came under their consideration. In a province like Assam, where they had to deal with a large body of ryots, each paying a small amount, he thought it would not be advisable to introduce all the technicalities of a procedure applicable to a more advanced people, or to a complicated system of land tenure. If a ryot was in such a position that every thing of his had to be sold, the Government officers in their own interests and in the interests of the public, were not likely to incarcerate him for fourteen days, because they would have to incur the expense of maintaining him in prison; and he (Mr. Thompson) thought we might safely leave a matter of this kind to the discretion of the local authorities. As he had said before, if there was really any thing harsh in the procedure proposed, he had no doubt the subject would meet with due consideration at the hands of the select committee.

The motion was then agreed to, and the Bill referred to a select committee consisting of Mr. Schalch, Baboo Digumbar Mitter, and the mover Mr. Thompson, with instructions to report within six weeks.

RECOVERY OF FINES.

MOULVI ABROOL LUTHER moved that the Bill to facilitate the recovery of certain fines imposed in Bengal be read in Council. In doing so he said he begged to state that as he has already explained the objects and reasons for the introduction of the measure, he would not detain the Council with any further observations on this occasion, with the exception of one or two words. In the first place, he thought that the same principle under which the provisions of sections 68 to 70 of the Indian Penal Code have been extended to all fines imposed under the authority of Acts passed by this Council after the 30th of May 1867, as provided for in Act V. of 1867, was equally applicable to fines imposed under the authority of Acts passed prior to that date; and he could not understand why there should be a difference between the two. What is good and necessary in the one case should undoubtedly be so in the other. And he did not see any objection to the provisions of the said sections of the Penal Code being made applicable to all fines imposed by Acts of this Council previously passed.

In the second place, he found that there had been great many discussions at the meetings of both the justices of the peace for the town of Calcutta and the municipal commissioners for the suburbs as to the total failure of the Act passed by this Council for the better regulation of slaughter-houses, and both those corporations have resolved upon addressing the Government with a view to an amendment of the said Act, so as to enable the authorities to enforce its provisions, which they at present were utterly unable to do. He was, however, of opinion that if the Bill, which he begged to propose, was passed, it would effectually remedy the defect in the Act in question, and there would be no necessity whatever for amending it.

With these remarks he begged to move that the Bill be read in Council.

BABOO DIGUMBAR MITTER said that the object of the present measure appeared to be to make fines, which under the existing law can only be enforced by sale of the movable property of the offender, commutable to imprisonment if the fine be not realized by the distress. He did not question that some of the existing provisions might have been found defective or

might have failed in their object. If those laws required amendment, let them by all means be amended in due form after sufficient publication. But he respectfully objected to the punitive provisions of one Act being set aside, altered, or modified, without due regard being had to the nature of the offences which they were intended to meet. If such a course were adopted, there was no knowing what serious alterations might be made in the existing body of law without the public being at all aware of it.

MOULVY ABDOL LUTEEF said he thought that if the Bill was referred to a select committee they would be in a position to consult all the Acts which would be affected by this Bill, and to see if there was anything in any of them which would not justify the extension of this Act. He thought that was a matter of detail which could very easily be done by the committee.

The motion was then agreed to, and the Bill referred to a select committee consisting of the Advocate-General, the Hon'ble Mr. Eden, and the mover Mouly Abdool Lateef, with instructions to report within a month.

The Council was adjourned to Saturday, the 11th instant.

Results of the Meteorological Observations taken at the Surveyor-General's Office, Calcutta, from 22nd to 31st January 1871.

Month.	Date.	Mean reduced barometer.	THERMOMETER.				Mean dew-point.	Mean degree of humidity.	WIND.			GENERAL REMARKS.	
			Highest reading.	Lowest reading.	Max. solar radiation.	Mean dry bulb.			Mean wet bulb.	Prevailing direction.	Max. pressure.		Daily velocity.
		Inches.		°	°	°	°			in.	Miles.	In.	
Jan.	22nd	29.959	76.0	60.0	134.0	68.0	60.4	66.2	W by N & W S W	...	105.6	...	Clear. Slightly foggy from 8 to 11 P.M.
	23rd	29.9	78.8	60.5	134.5	68.7	61.8	68.8	W & W & W	...	77.3	...	Clear.
	24th	29.84	80.3	62.3	138.0	70.0	63.0	68.5	W & W & W	...	99.7	...	Clear.
	25th	29.77	81.6	63.5	136.2	71.3	65.8	61.4	W & W & W S & S W	...	128.0	...	Clear.
	26th	30.057	76.0	62.2	134.4	68.6	61.0	66.0	W N W & variable.	...	140.0	...	Chiefly clear. Foggy from 1 to 4 A.M.
	27th	29.57	75.0	57.6	133.5	65.6	59.5	60.2	W N W & W	0.6	126.2	...	Clear. Slightly foggy from 7 to 11 P.M.
	28th	29.82	74.7	56.6	133.0	64.5	58.8	60.8	W & W by S	...	96.6	...	Clear. Slightly foggy at midnight, from 5 to 7 A.M., and 9 to 11 P.M.
	29th	29.11	77.3	58.4	131.5	66.8	60.3	63.8	W by S & W	...	108.0	...	Chiefly clear.
	30th	29.13	79.3	61.0	131.5	68.4	63.0	57.9	W by S & W	...	104.9	...	Chiefly clear.
	31st	29.29	81.0	61.6	136.5	70.9	64.9	60.1	W by S & W	...	78.1	...	Clear. Slightly foggy from 7 to 9 P.M.

The mean barometer, as likewise the dry and wet bulb thermometer means, are derived from the twenty-four hourly observations made during the day.

The dew-point is computed with the Greenwich constants.—The figures in column 10 represent the humidity of the air, the complete saturation of which being taken at unity.—The receiver of the lower rain gauge is 1½ feet, and that of the anemometer 70 feet 10 inches, above the level of the ground.—The velocity of wind, as indicated by Robinson's anemometer, is registered from noon to noon.

The extreme variation of temperature during the past ten days	...	26.0
The max. temperature during the past ten days	...	81.5
The max. temperature during the corresponding period of the past year	...	78.5
The mean humidity during the past ten days	...	0.68
The mean humidity during the corresponding period of the past year	...	0.65
		Inches.
The total fall of rain from 22nd to 31st ...	by lower rain gauge	Nil
	by anemometer gauge	Nil
Ditto ditto, average of 17 previous years	...	0.29
Ditto between the 1st January and the 31st January	...	Nil
Ditto ditto ditto, average of 17 years	...	0.46

GOPENATH SEN,
In charge of the Observatory.

The 1st February 1871

Meteorological Telegraphic Report for the period 29th January to 4th February 1871.

Station.	Date.	Hour.	Barometer reduced to 32°.	Barometer reduced to sea-level.	Thermometer.		Humid. div. Sat. = 100.	Wind.		Rain.	Clouds.	Weather initials.
					Dry.	Wet.		Direction.	Velocity.			
Calcutta.	Jan. 29th	10	30.000	30.118	68.1	68.0	51	W by S	...	...	...	b
	18	16	29.914	30.002	70.0	69.7	46	W	...	...	CR	b
	30th	10	30.009	30.118	70.0	69.2	75	W by S	...	...	...	b
	18	16	29.962	30.081	78.0	69.0	40	W	...	...	...	b
	31st	10	30.104	30.123	72.7	69.0	80	W by S	...	...	...	b
	Feb. 1st	10	30.028	30.007	80.6	68.5	51	W	...	...	...	b
	18	16	30.116	30.135	70.0	69.6	89	W	...	...	...	b
	18	16	30.003	29.981	81.0	67.5	89	W N W	...	...	...	b
	2nd	10	30.037	30.060	73.7	67.0	67	W by S	...	...	...	b
	18	16	29.987	30.003	82.5	65.4	86	W S W	...	...	...	b
Saugor Island.	3rd	10	29.967	29.980	74.0	70.0	81	S S W	...	...	C	b
	18	16	29.810	29.768	63.6	66.0	82	W	...	...	C	b
	4th	10	29.984	30.013	73.4	69.0	48	W S W	...	...	...	b
	18	16	29.937	29.855	80.0	62.3	39	W by S	...	...	...	b
	Jan. 29th	10	30.102	30.109	71	69	59	N	61°	...	...	b, m
	18	16	29.974	29.990	78	66	40	S S W	77°	...	...	b, m
	30th	10	30.104	30.110	76	72	86	W S W	40°	...	C	b
	18	16	29.985	29.931	76	72	78	S S W	80°	...	...	b
	31st	10	30.111	30.117	78	74	80	W	47°	...	C	b
	Feb. 1st	10	30.007	30.013	79	74	77	S W	103°	...	C	b
Chittagong.	18	16	30.132	30.138	74	71	85	W N W	60°	...	C	b
	18	16	29.979	29.986	83	74	66	S S W	102°	...	C	b
	2nd	10	30.050	30.056	74	73	95	S W	40°	...	C	b, f
	18	16	29.917	29.923	79	72	69	S S E	64°	...	C	b, m
	3rd	10	29.982	29.988	75	71	96	W N W	0°	...	C	b, m
	18	16	29.859	29.866	85	73	80	N W	0°	...	C	b, m
	4th	10	30.016	30.016	77	66	83	N N W	70°	...	...	b, m
	18	16	29.841	29.847	84	68	40	S	62°	...	...	b, m
	Jan. 29th	10	30.110	30.140	81	69	51	S W	8°	...	...	b
	18	16	29.914	30.027	76	66	75	N E	42°	...	...	b, m
Matheran.	30th	10	30.054	30.067	76	66	59	W S W	71°	...	...	b
	18	16	30.013	30.127	71	66	75	W S W	47°	...	...	b, m
	31st	10	30.049	30.082	77	70	68	E S E	82°	...	...	b, m
	Feb. 1st	10	30.037	30.141	79	67	75	W S W	45°	...	C, CR	b, m
	18	16	29.843	29.954	69	67	48	W	82°	...	...	b
	2nd	10	29.926	30.035	74	66	68	E	58°	...	...	b, m
	18	16	29.814	29.826	80	66	51	W	03°	...	C	b, m
	3rd	10	29.891	30.013	72	66	71	E N E	43°	...	...	b, m
	18	16	29.814	29.845	83	68	49	S W	41°	...	...	b, m
	4th	10	29.902	30.014	80	72	06	S S W	38°	...	...	b
Cutback.	18	16	29.757	29.863	80	74	74	S W	48°	...	...	b
	Jan. 29th	10	30.110	30.140	81	69	51	S W	8°	...	...	b
	18	16	29.914	30.024	81	69	51	N N W	0°	...	...	b
	30th	10	30.103	30.133	80	68	51	N N W	0°	...	...	b
	18	16	29.974	30.004	80	67	47	N E	0°	...	...	b
	30th	10	30.057	30.117	81	69	51	E N E	5°	...	...	b
	18	16	29.960	29.999	80	69	54	E N E	8°	...	...	b
	31st	10	30.102	30.132	80	68	51	N E by N	6°	...	...	b, c
	Feb. 1st	10	29.987	30.017	80	68	51	N E	0°	...	...	b, c
	18	16	30.111	30.131	82	70	52	N N E	7°	...	...	b
Arva.	2nd	10	29.971	30.001	82	70	52	N	11°	...	...	b
	18	16	30.072	30.102	82	70	52	N N W	8°	...	...	b
	3rd	10	29.917	29.977	82	72	69	N	10°	...	...	b, c
	18	16	30.043	30.073	80	71	09	S W by N	5°	...	...	b
	4th	10	29.937	29.967	83	72	56	N E	6°	...	...	b
	Jan. 29th	10	30.067	30.141	70	66	79	W S W	...	...	...	Fair.
	18	16	29.893	29.906	78	64	36	N W	...	...	...	Fair.
	30th	10	30.030	30.114	69	65	70	N W	...	...	...	Fair.
	18	16	29.869	29.972	78	64	36	N	...	...	...	Fair.
	30th	10	30.043	30.127	69	65	70	N N W	...	...	...	Fair.
Arva.	18	16	29.883	29.986	78	65	46	N W	...	...	...	Fair.
	31st	10	30.037	30.121	69	67	89	N	...	...	...	Fair.
	Feb. 1st	10	29.909	29.971	82	67	49	N N E	...	...	...	Fair.
	18	16	29.792	29.160	71	69	89	W	...	...	...	Fair.
	2nd	10	29.898	29.981	80	68	51	W N W	...	...	...	Fair.
	18	16	29.892	29.970	71	67	80	W	...	...	...	Fair.
	3rd	10	29.839	29.916	83	68	88	N W	...	...	...	Fair.
	18	16	29.904	29.987	77	68	58	W	...	...	...	Fair.
	4th	10	29.776	29.859	69	67	82	N N W	...	...	...	Fair.
	18	16	29.860	29.871	78	71	69	W	...	...	...	b

* Velocity of wind in miles per hour.

Calcutta,
The 4th February 1871.

HENRY F. BLANFORD,
Meteorological Reporter to the Government of Bengal.

Weekly Report of Rainfall compiled at the Meteorological Reporter's Office.

Division.	Stations.	Rainfall from 18th to 22nd Jan. 1871.	Rainfall from 23rd to 29th Jan. 1871.	RAIN FROM 1st JANUARY 1871.		REMARKS.
				Rain.	Up to date.	
COCHIN.	Cuttack { Telegraph Office ...	Nil	Nil	Nil	29th Jan. 1871.	
	Jail ...	ditto	ditto	ditto	ditto.	
	Palae Point ...	ditto	Not received	ditto	22nd Jan. 1871.	
	Jagunore ...	ditto	ditto	ditto	ditto.	
	Kendrapur ...	ditto	ditto	ditto	ditto.	
	Jagunore ...	ditto	ditto	ditto	ditto.	
	Samalpur ...	Not received	ditto	ditto	ditto.	
	Balasore ...	Nil	Nil	Nil	29th Jan. 1871.	
CHOTA NAGPUR.	Blundrock ...	Not received	Not received	ditto	15th Jan. 1871.	
	Pogore ...	Nil	Nil	ditto	29th Jan. 1871.	
	Khoordah ...	Not received	Not received	ditto	15th Jan. 1871.	
	Hasarobhaugh ...	Nil	Nil	ditto	28th Jan. 1871.	
	Burhes ...	0.01	Not received	0.01	22nd Jan. 1871.	
	Pachamba ...	Nil	Nil	Nil	29th Jan. 1871.	
	Ranchee ...	Not received	Not received	ditto	8th Jan. 1871.	Not received 1st January.
	Falamow ...	Nil	ditto	ditto	22nd Jan. 1871.	
PATNA.	Puruba ...	ditto	Nil	ditto	29th Jan. 1871.	
	Gobindpore ...	Not received	Not received	...	...
	Chyabasa ...	Nil	Nil	Nil	29th Jan. 1871.	
	Paina ...	0.05	ditto	0.05	ditto.	
	Debar ...	Nil	Not received	Nil	22nd Jan. 1871.	
	Barh ...	0.80	ditto	0.80	ditto.	
	Dumra ...	Nil	Nil	Nil	29th Jan. 1871.	
	Gya ...	Not received	Not received	ditto	15th Jan. 1871.	
BRAHMAPUTRA.	Shierghatty ...	ditto	ditto	...	...
	Nomadab ...	Nil	Nil	Nil	29th Jan. 1871.	
	Arungabad ...	ditto	Not received	ditto	22nd Jan. 1871.	
	Champan ...	ditto	ditto	ditto	ditto.	
	Chuprah ...	ditto	Nil	ditto	29th Jan. 1871.	
	Sewan ...	Not received	Not received	ditto	15th Jan. 1871.	
	Moufferpore ...	Nil	Nil	ditto	29th Jan. 1871.	
	Dumbhangah ...	0.05	Not received	0.05	22nd Jan. 1871.	
RAJSHAH.	Sentlangra ...	Not received	Nil	Nil	15th Jan. 1871.	Not received 18th to 22nd Jan.
	Tyapora ...	0.01	Not received	0.01	22nd Jan. 1871.	
	Arrah ...	Nil	ditto	Nil	ditto.	
	Ruzar ...	ditto	Nil	ditto	29th Jan. 1871.	
	Sameram ...	Not received	Not received	...	...
	Bhubhoah ...	ditto	ditto	...	...
	Rangra ...	Nil	Nil	Nil	29th Jan. 1871.	
	Bhaugulpore ...	ditto	ditto	ditto	ditto.	
BANGALORE.	Mudhyapoorah ...	ditto	ditto	ditto	ditto.	
	Banka ...	Not received	Not received	...	...
	Manghyr ...	Nil	Nil	Nil	29th Jan. 1871.	
	Jamool ...	Not received	Not received	ditto	15th Jan. 1871.	Not received 1st to 5th Jan.
	Begoodari ...	Nil	Nil	ditto	29th Jan. 1871.	
	Deoghur ...	ditto	Not received	ditto	22nd Jan. 1871.	
	Purneah ...	ditto	Nil	ditto	29th Jan. 1871.	
	Rampore Beaulah ...	ditto	ditto	ditto	ditto.	
BANGALORE.	Natore ...	ditto	Not received	ditto	22nd Jan. 1871.	
	Hograh ...	ditto	Nil	ditto	29th Jan. 1871.	
	Dinapore ...	ditto	ditto	ditto	ditto.	
	Mudlah ...	ditto	ditto	ditto	ditto.	
	Bachampore ...	ditto	ditto	ditto	ditto.	
	Jangipore ...	ditto	Not received	ditto	22nd Jan. 1871.	
	Lalbagh ...	ditto	Nil	ditto	29th Jan. 1871.	From 18th Jan.
	Pabna ...	ditto	ditto	ditto	ditto.	
BANGALORE.	Coomerally ...	ditto	ditto	ditto	ditto.	
	Seerghunge ...	Not received	Not received	...	...
	Rangpore ...	ditto	ditto	Nil	15th Jan. 1871.	
	Titalya ...	0.01	Nil	0.01	29th Jan. 1871.	
	Burdwan ...	Nil	ditto	Nil	ditto.	
	Calwa ...	ditto	ditto	ditto	ditto.	
	Calna ...	ditto	ditto	ditto	ditto.	Not received 8th to 15th Jan.
	Bood-Bood ...	ditto	ditto	ditto	ditto.	
BANGALORE.	Bunoorah ...	ditto	ditto	ditto	ditto.	
	Ranegunge ...	ditto	ditto	ditto	ditto.	
	Source ...	ditto	ditto	ditto	ditto.	
	Hooghly ...	ditto	ditto	ditto	ditto.	
	Howrah ...	ditto	ditto	ditto	ditto.	
	Mianapore ...	ditto	ditto	ditto	ditto.	
	Centai ...	Not received	Not received	ditto	15th Jan. 1871.	
	Gurhatta ...	ditto	ditto	ditto	8th Jan. 1871.	
BANGALORE.	Tunhook ...	ditto	ditto	ditto	15th Jan. 1871.	Not received 1st Jan.
	Kishanpur ...	Nil	Nil	ditto	29th Jan. 1871.	
	Bongong ...	ditto	Not received	ditto	22nd Jan. 1871.	
	Ranghat ...	ditto	Nil	ditto	29th Jan. 1871.	
	Melharore ...	Not received	Not received	ditto	15th Jan. 1871.	
	Choudangah ...	ditto	ditto	...	...
	Koushtah ...	Nil	Nil	Nil	29th Jan. 1871.	
	Jesore ...	ditto	ditto	ditto	ditto.	
BANGALORE.	Mangor Island ...	ditto	ditto	ditto	ditto.	
	Calcutta ...	ditto	ditto	ditto	ditto.	
	Alipore { Jail ...	ditto	ditto	ditto	ditto.	
	Dispensary ...	ditto	ditto	ditto	ditto.	
	Barrackpore ...	ditto	Not received	ditto	22nd Jan. 1871.	
	Dum Dum ...	ditto	ditto	ditto	ditto.	
	Baranet ...	ditto	ditto	ditto	ditto.	
	Halkherah ...	ditto	ditto	ditto	ditto.	
BANGALORE.	Banseebad ...	ditto	ditto	ditto	ditto.	
	Thamond Harbour ...	ditto	ditto	ditto	ditto.	
BANGALORE.	Barripore ...	ditto	ditto	ditto	ditto.	

DIVISION.	Stations.	Rainfall from 18th to 22nd Jan. 1871.	Rainfall from 23rd to 29th Jan. 1871.	RAIN FROM 1ST JANUARY 1871.		REMARKS.
				Rain.	Up to date.	
DACCA.	Dacca { Telegraph Office ...	Not received	Not received	...	...
	Dacca { Jail ...	ditto	ditto	Nil	15th Jan. 1871.	
	Barrisail ...	Nil	Nil	ditto	20th Jan. 1871.	
	Dowlat Khan ...	ditto	Not received	ditto	22nd Jan. 1871.	
	Farrakka ...	ditto	Nil	ditto	20th Jan. 1871.	
	Maleripore ...	ditto	ditto	ditto	ditto.	
	Farrakka ...	ditto	ditto	ditto	ditto.	
	Mymensing ...	ditto	Not received	ditto	22nd Jan. 1871.	
	Jamalpur ...	ditto	ditto	ditto	ditto.	
	Atish ...	Not received	ditto	...	...
	Kishoreganj ...	Nil	Nil	Nil	29th Jan. 1871.	
	Sylhet ...	ditto	ditto	ditto	ditto.	
CHITTAGONG.	Cachar ...	ditto	ditto	ditto	ditto.	
	Aenakhali Mylakandy ...	Not received	Not received	...	...
	Chittagong { Telegraph Office ...	Nil	Nil	Nil	29th Jan. 1871.	
	Chittagong { Jail ...	ditto	ditto	ditto	ditto.	
	Cox's Bazar ...	Not received	Not received	...	...
	Rangamati Hill ...	Nil	ditto	Nil	22nd Jan. 1871.	
COOM BARA.	Naakhali ...	ditto	Nil	ditto	29th Jan. 1871.	Not received 2nd to 6th Jan.
	Tipperah ...	ditto	ditto	ditto	ditto.	
	Brahmanbaria ...	ditto	Not received	ditto	22nd Jan. 1871.	
	Akyah ...	ditto	Nil	ditto	29th Jan. 1871.	
	Buxa ...	ditto	ditto	ditto	ditto.	
	Swainpurah ...	ditto	Not received	ditto	22nd Jan. 1871.	
AMAR.	Dhobree ...	Not received	ditto	...	...
	Toora (Garu Hills) ...	Nil	ditto	Nil	22nd Jan. 1871.	
	Darjeeling { Telegraph Office ...	Not received	ditto	...	...
	Darjeeling { Jail ...	ditto	ditto	...	...
	Rungbee ...	ditto	ditto	...	...
	Tera ...	ditto	ditto	...	...	Not recorded.
AMAR.	Falacottin ...	ditto	ditto	Nil	16th Jan. 1871.	
	Jalpigoria ...	Nil	Nil	ditto	29th Jan. 1871.	
	Buda ...	ditto	Not received	ditto	22nd Jan. 1871.	
	Terpore ...	ditto	ditto	ditto	ditto.	
	Nowgong ...	Not received	ditto	ditto	8th Jan. 1871.	
	Burpettah ...	Nil	ditto	ditto	22nd Jan. 1871.	
	Chumatty ...	ditto	ditto	ditto	ditto.	
	Seetmansur ...	ditto	ditto	0.05	ditto.	
	Golaghat ...	Not received	ditto	Nil	15th Jan. 1871.	
	Narectah ...	Nil	ditto	0.03	22nd Jan. 1871.	
AMAR.	Debrooghar ...	Not received	ditto	Nil	15th Jan. 1871.	
	Suddya ...	ditto	ditto	0.07	ditto.	Not received 2nd to 6th Jan.
	Shillong ...	Nil	ditto	Nil	22nd Jan. 1871.	
	Jowai ...	ditto	ditto	ditto	ditto.	
	Samoogooding ...	Not received	ditto	ditto	15th Jan. 1871.	

CALCUTTA,
The 4th February 1871.

HENRY F. BLANFORD.
Meteorological Reporter to the Govt. of Bengal.

Abstract of Observations as received in the Meteorological Reporter's Office, Calcutta.

DURING THE HALF MONTH 1ST TO 15TH DECEMBER 1870.

N.B.—The Barometric data are reduced for temperature, and not for height above sea level.

STATIONS.	Height above sea level.	BAROMETER.				THERMOMETER.										HUMIDITY.				No. of days' rain.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		Mean.	Mean of			Solar Radiation.				Mean of max.	Mean daily range.	Mean of min.	Mean of				High.	Mean.	4 hours.		10 hours.	16 hours.	22 hours.	Day.	Night.	Absol. range.	Lower Min.	Mean.	4 hours.	10 hours.	16 hours.	22 hours.	Inches.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			Range.	10 hours.	16 hours.	22 hours.	Max.	Min.	Day.				Night.	Day.	Night.	Day.																		Night.	Day.	Night.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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CALCUTTA,
The 3rd February 1871.HENRY F. BLANFORD,
Meteorological Reporter to the Govt. of Bengal.

Mean Pressures and Temperatures of the Preceding Table Reduced to Sea Level, with Mean Wind Directions.

STATIONS.	Mean barometric pressure reduced to sea level.	Mean temperature reduced to sea level.	WIND.	
			Proportional prevalence Max=100.	Mean direction.
Port Blair	...	...	...	...
Madras	...	...	...	...
Vizagapatam	30.084	...	91	N 4° E
Akyab	30.088	76.1	84	N 66° E
False Point	30.058	72.8	61	N 34° W
Cuttack	30.141	69.9	81	N 6° E
Bengor Island	30.129	66.9	49	N 16° W
Chittagong	30.090	67.8	87	N 7° W
Calcutta	30.073	68.6	54	N 25° W
Jessore	30.090	69.9	90	N 58° W
Dacca	30.086	63.7	96	N 36° E
Cachar	30.072	68.3	69	N 25° W
Hasarreebongh	30.068	66.3	71	S 30° E
Berhampore	30.118	66.6	80	N 61° W
Patna	30.087	66.9	83	N 48° W
Monghyr	30.124	69.9	61	N 68° W
Darjeeling	30.071	63.2	69	S 62° W
Gowalparah	30.181	66.8	29	S 63° W
Shillong	30.153	67.2	60	E
Benares	30.120	63.9	1	S 71° E
Roorkee	30.138	64.9	43	N 71° W
	30.143	65.9	20	N 45° W

NOTE.

Barometric Pressure.—The pressures in column 2 of the above table for all stations below 500 feet are reduced from those given in column 3 of the table on the previous page by adding the weight of a column of air of the corresponding temperatures given in column 17. For stations of above 500 feet elevation, the reduction is made by Dippe's tables as given in Guyot's "Meteorological and Physical Tables."

Temperature.—The temperatures in column 3 are reduced from those in column 17, on the preceding page, by adding 1° Fahr. for every 350 feet.

Wind Direction.—The mean wind direction and its comparative prevalence are calculated from the whole number of wind observations recorded during the half-month. The latter is given as a percentage of the whole number of observations. The mean direction is calculated in the usual way by Lambert's formula.

The above being all comparable, afford the data for constructing a meteorological chart for the half-month which shall show the isobaric and isothermal lines, and the resultant wind directions, which last may be represented by arrows of varying length proportioned to the prevalence of the wind. To these may be added the rainfall from the previous tables.

HENRY F. BLANFORD,

*Meteorological Reporter to the Government of Bengal.*CALCUTTA,
The 3rd February 1871.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY—MAIN LINE.

Approximate Return of Traffic for week ended 21st January 1871, on 1,278½ miles open.

	COACHING TRAFFIC.			MERCHANDISE AND MINERAL TRAFFIC.			Total Traffic Receipts.
	Number of passengers.	Coaching receipts.		Weight carried.	Receipts.		
		Rs. As. P.	£ s. d.	Mds. Srs.	Rs. As. P.	£ s. d.	£ s. d.
Total traffic for the week ...	100,039½	1,45,574 12 4	15,342 7 9	555,457 10	3,59,107 0 5	33,554 15 7	48,927 13 4
Or per mile of railway ...	102,727½	148 15 2	10 8 7	...	393 0 5	27 10 3	34 4 10
For previous 3 weeks of half year...	102,727½	2,54,102 0 6	26,048 8 4	1,195,916 20	7,26,454 0 6	60,434 4 1	92,512 7 9
Total for 3 weeks ...	292,767	4,29,723 13 10	50,391 1 8	1,785,002 30	11,15,261 10 0	102,448 10 8	144,440 1 1
COMPARISON.							
Total for corresponding week of previous year ...	131,435½	2,31,587 13 8	20,312 4 5	722,063 20	4,23,104 12 8	35,768 4 5	69,106 8 10
Per mile of railway, corresponding week of previous year ...	.....	105 14 8	17 10 2	.....	374 8 11	84 0 0	52 5 2
Total to corresponding date of previous year ...	300,861½	8,15,585 13 5	74,702 10 1	2,535,915 20	13,15,378 2 10	130,578 1 1	194,330 0 2

EAST INDIAN RAILWAY—JUBBULPORE LINE.

Approximate Return of Traffic for week ended 21st January 1871, on 223 miles open.

		Rs. As. P.	£ s. d.	Mds. Srs.	Rs. As. P.	£ s. d.	£ s. d.
Total traffic for the week ...	5,193½	15,514 4 10	1,425 2 11	42,004 0	23,131 12 8	1,203 14 11	2,635 17 10
Or per mile of railway ...	11,013½	37,090 4 5	3,400 2 3	110,323 10	33,039 4 6	3,112 16 11	4,513 1 2
For previous 3 weeks of half year...							
Total for 3 weeks ...	16,197	52,090 7 3	4,932 5 2	132,306 10	47,091 3 3	4,310 13 10	9,738 19 0
COMPARISON.							
Total for corresponding week of previous year ...	6,810	19,572 13 5	1,794 3 9	35,291 20	10,082 14 7	1,003 15 4	2,850 19 1
Per mile of railway, corresponding week of previous year ...	.....	87 12 4	8 0 11	.....	45 4 0	4 10 8	12 11 2
Total to corresponding date of previous year ...	23,517	86,814 4 1	7,907 19 6	108,347 0	35,929 3 2	3,101 0 2	11,054 10 6

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week ended 21st January 1871, on 150½ miles open.

		Rs. As. P.	£ s. d.	Mds. Srs.	Rs. As. P.	£ s. d.	£ s. d.
Total traffic for the week ...	20,576	17,789 13 6	1,630 15 0	109,834 5	24,310 9 0	3,231 4 5	3,961 19 5
Or per mile of railway ...	169	113 10 6	10 8 5	701 0	165 8 0	14 5 2	24 13 7
For previous 3 weeks of half year...	64,867	30,412 4 8	2,787 15 11	174,561 24	44,547 5 8	3,808 10 1	4,928 4 0
Total for 3 weeks ...	81,293	48,202 4 8	4,418 10 11	284,135 30	63,887 15 5	6,040 14 6	10,458 5 6
COMPARISON.							
Total for corresponding week of previous year ...	24,234	20,220 1 3½	2,404 10 2	98,989 37	15,168 7 18	1,590 8 14	3,703 19 0
Per mile of railway, corresponding week of previous year ...	203	231 9 5	21 4 5	674 0	133 18 0	12 6 7	33 10 6
Total to corresponding date of previous year ...	93,235	67,918 5 8½	6,143 7 6	292,876 21½	43,404 3 8	3,895 5 11	10,039 12 11

CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Traffic for week ended 21st January 1871, on 28 miles open.

		Rs. As. P.	£ s. d.	Mds. Srs.	Rs. As. P.	£ s. d.	£ s. d.
Total traffic for the week ...	13,942	1,739 15 6	173 19 7	10,830 33	1,56 12 9	32 13 8	306 13 4
Or per mile of railway ...	498	62 2 8	6 4 5	387 3	11 10 0	1 5 4	7 7 7
For previous 16 weeks of half year...	65,408½	10,207 11 0	1,530 15 6	178,304 28	5,750 15 9	575 9 6	2,006 1½ 5
Total for 17 weeks ...	109,450½	24,947 9 0	2,694 10 0	187,163 23	6,077 13 6	607 15 0	2,312 14 9
COMPARISON.							
Total for corresponding week of previous year ...	6,040	1,101 5 0	100 10 10	11,947 30	379 10 0	32 14 1	183 14 11
Per mile of railway, corresponding week of previous year ...	216	39 5 3	3 12 1	427 0	13 6 11	1 4 11	4 17 0
Total to corresponding date of previous year ...	70,610½	14,004 13 9	1,394 2 10	162,120 14	4,040 0 5	317 5 4	1,901 5 3

IRRIGATION BRANCH, PUBLIC WORKS DEPARTMENT, BENGAL.

ORISSA CIRCLE.

Statement showing the amount of Traffic and Tolls on the Kendraparah Canal during the month of November 1870.

LOCAL TRAFFIC.				TRAFFIC BETWEEN CUTTACK AND SEA-BOARD.				STORES AND MATERIALS FOR IRRIGATION WORKS.				ABSTRACT.				
Number of boats.	Nature of cargo.	Approximate value of cargo.		Tonnage.	Tollage.	Number of boats.	Nature of cargo.	Approximate value of cargo.		Tonnage.	Tollage.	Number of boats.	Nature of traffic.	Value of traffic.	Tonnage.	Tollage.
		Rs. As.	P.					Rs. As.	P.								Rs. As.	P.
4	Salt	5,094	0	1,803		6	Paddy	6,478	8	12,853		30	Local	40,615	8	380
23	Jaggery	12,880	0	2,776		183	Passengers	6,004	6	6,004		217	Through	1,691	8	1,691
6	Passengers	1,050				48	Hides	1,100	0	1,100		15	ftl works	149	4	149
6	Bricks	81	8	2,839		13	Gum	1,100	0	1,100		15	ftl works	149	4	149
8	Cotton	24,800	0	810		14	Rice	2,855	0	2,855		15	ftl works	149	4	149
						60	Clothes	80,880	0	4,334		15	ftl works	149	4	149
						54	Spice	71,000	0	4,898		15	ftl works	149	4	149
						57	Salt	5,404	0	1,762		15	ftl works	149	4	149
						91	Jaggery	5,430	0	1,486		15	ftl works	149	4	149
						25	Simla seed	5,148	0	1,716		15	ftl works	149	4	149
						25	Empty	7,908		7,908		15	ftl works	149	4	149
30		40,615	6	7,891	380	44	15	0	217	1,93,478	8	45,984	1,840	558	6	1 15

IRRIGATION, BRANCH, PUBLIC WORKS DEPARTMENT, BENGAL.

ORISSA CIRCLE.

Statement showing the amount of Traffic and Tolls on the First Section of the High Level Canal during the month of November 1870.

LENGTH OF CANAL OPEN, 25 MILES.

LOCAL TRAFFIC.					STORES AND MATERIALS FOR IRRIGATION WORKS.					ABSTRACT.								
Number of boats.	Nature of cargo.	TONNAGE.			Number of boats.	Nature of cargo.	TONNAGE.			Number of boats.	Nature of traffic.	Value of traffic.	Tonnage.	Tollage.				
		Approximate value of cargo.	Mandis.	Tons.			Approximate value of cargo.	Mandis.	Tons.									
		Rs.		Rs. As. P.			Rs.		Rs. As. P.			Rs.		Rs. As. P.				
32	Passengers	...	No.	...	38	8 11	1	Empty	...	51	...	0 4 0	67	Local	...	555	117	57 1 11
16	Empty	...	781	...	4	13 2	1	Tools	...	10	...	0 6 0	2	Govt.	...	16	4	0 12 0
10	Straw	...	1,820	...	8	11 2	...	...	...	...	...	...	...	...	...	...	...	...
6	Wheat	...	40	...	1	15 1	...	...	...	...	...	...	...	...	...	...	...	...
1	Wheat	...	58	...	0	1 7	...	...	...	...	...	...	...	...	...	...	...	...
1	Lime	...	40	...	2	4 0	...	...	...	...	...	...	...	...	...	...	...	...
1	Timber	...	60	...	0	4 0	...	...	...	...	...	...	...	...	...	...	...	...
3	Horses	...	80	...	0	8 0	...	...	...	...	...	...	...	...	...	...	...	...
67		555	3,293	117	57	1 11	9		10	172	6	0 12 0	69		555	124	57 13 11	

The "tonnage" shown is that of the boats and not of the goods

Statement showing the amount of Traffic and Tolls on the Taldundah Canal during the month of November 1870.

LENGTH OF CANAL OPEN, 7 MILES.

TRAFFIC BETWEEN CUTTACK AND NEALPORE ON THE GRAND TRUNK ROAD TO CALCUTTA.						STORES AND MATERIALS FOR IRRIGATION WORKS.						ABSTRACT.					
Number of boats.	Number of passengers.	Approximate value of cargo.	TONNAGE.		Tollage @ 4 pie per head per mile.	Number of boats.	Nature of cargo.	Approximate value of cargo.	TONNAGE.		Tollage @ 4 pie per 100.	Number of boats.	Nature of traffic.	Value of cargo.	Tonnage.	Tollage.	REMARKS.
			Mandis.	Tons.					Mandis.	Tons.							
					Rs. As. P.						Rs. As. P.						
27	1,697	...	11,850	...	51 13 11	27	Laterite stone	54,810	65,370	...	163 5 11	34	Jetties boats	...	457	63 15 2	Pilgrims to Jagannath.
						1	Cut sand stone	260	875	...	1 11 0	...	...	...	...	...
						19	Shooting lime	3,390	9,198	...	53 0 0	41	Irrigation boats	...	...	...
74	...	...	840	...	3 1 3	10	Rubble stone	2,160	5,617	...	14 1 8	...	...	60,590	2,868	203 2 7	
34	1,697	...	12,790	457	53 15 3	61		60,590	80,863	2888	203 3 7	85		60,590	5345	366 2 0	

* Empty return boats.

IRRIGATION BRANCH, PUBLIC WORKS DEPARTMENT, BENGAL.

SOUTH-WESTERN CIRCLE.

Statement showing the amount of Traffic and Tolls on the Midnapore Section of the High Level Canal during the month of November 1870.

LENGTH OF CANAL OPEN, 24 MILLS.

LOCAL TRAFFIC.				STORES AND MATERIALS FOR IRRIGATION WORKS.				ABSTRACT.								
Number of boats.	Nature of cargo.	Approximate value of cargo.	Tonnage.		Tollage.	Number of boats or raft.	Nature of cargo.	Approximate value of cargo.	Tonnage.		Tollage.	Number of boats.	Nature of traffic.	Value of traffic.	Tonnage.	Es. As. P. Tollage.
			Mauada.	Tona.					Mauada.	Tona.						
8	Coal	474	2,850	...	Rs. As. P.	...	...	...	...	...	Rs. As. P.	1,806	Local	8,49,377	7,608	Es. As. P.
31	Cotton	58,416	6,025	...	17 7 0	...	...	...	...	...	...	...	...	100	10	1,189 6 1
19	Firewood	1,063	4,100	...	37 13 6	...	...	...	...	...	...	...	...	...	...	4 8 9
27	Grain	5,333	6,700	...	21 11 0	...	...	...	...	...	...	...	...	...	...	...
5	Hides and horns	2,140	900	...	26 6 8	...	...	...	...	...	...	...	...	...	...	...
31	Jaggery and sugar	13,381	4,733	...	3 13 3	...	...	...	...	...	...	...	...	...	...	...
33	Metals	44,125	9,150	...	23 9 3	...	...	...	...	...	...	...	...	...	...	...
131	Miscellaneous	11,701	20,975	...	60 5 6	...	...	...	...	...	...	...	...	...	...	...
28	Oil and oil seeds	14,078	7,860	...	93 1 6	...	...	...	...	...	...	...	...	...	...	...
22	Paddy and rice	3,108	4,173	...	31 1 8	...	...	...	...	...	...	...	...	...	...	...
118	Pine cones	1,10,237	21,254	...	17 7 3	...	...	...	...	...	...	...	...	...	...	...
18	Gunther produce	2,919	3,073	...	103 13 9	...	...	...	...	...	...	...	...	...	...	...
14	Pattory	178	2,628	...	17 0 0	...	...	...	...	...	...	...	...	...	...	...
52	Salt	22,030	11,725	...	9 13 0	...	...	...	...	...	...	...	...	...	...	...
35	Silk and indigo	54,059	2,675	...	55 1 3	...	...	...	...	...	...	...	...	...	...	...
4	June	3,310	2,635	...	28 5 0	...	...	...	...	...	...	...	...	...	...	...
36	Straw	227	1,005	...	10 13 6	...	...	...	...	...	...	...	...	...	...	...
36	Tobacco	31,613	10,795	...	8 12 0	...	...	...	...	...	...	...	...	...	...	...
3	Bricks	53	1,760	...	55 0 6	...	...	...	...	...	...	...	...	...	...	...
7	Batts of timber	273	Logg 45	...	10 9 0	...	...	...	...	...	...	...	...	...	...	...
1	" of bamboo	13	" 176	...	18 0 0	...	...	...	...	...	...	...	...	...	...	...
206	Empty boats	75,100	...	...	416 11 3	...	...	...	...	...	...	...	...	...	...	...
701	Passengers	No. 7913	...	...	64 3 4	...	...	...	...	...	...	...	...	...	...	...
...	Miscellaneous revenue	...	...	...	73 8 4	...	...	...	...	...	...	...	...	...	...	...
1,823	...	5,49,377	2,02,885	7,608	1,189 5 1	4	...	100	900	10	2 3 0	1,760	...	8,49,477	7,616	1,191 8 10

IRRIGATION BRANCH, PUBLIC WORKS DEPARTMENT, BENGAL.

SOUTH-WESTERN CIRCLE.

Statement showing the amount of Traffic and Tolls on the Hidgee Talal Canal during the month of November 1870.

LENGTH OF CANAL, 28 MILES.

LOCAL TRAFFIC.				STORES AND MATERIALS FOR IRRIGATION WORKS.				ABSTRACT.			
Number of boats.	Nature of cargo.	Approximate value of cargo.	Tonnage.		Number of boats.	Nature of cargo.	Approximate value of cargo.	Tonnage.		Nature of traffic.	Value of traffic.
			Manilla.	Tons.				Manilla.	Tons.		
		Rs.	Tonnage.		Rs. As. P.	Tonnage.	Rs. As. P.	Tonnage.		Rs. As. P.	Tonnage.
			Manilla.	Tons.				Manilla.	Tons.		
33	Tobacco	22,016	1,535	63	5	9	3	63	5	9	3
20	Salt	40,375	9,472	50	2	8	3	50	2	8	3
12	Battery	110	1,140	0	7	3	0	0	7	3	0
6	Oil cake	130	110	2	0	0	0	2	0	0	0
1	Chick	70	80	0	0	0	0	0	0	0	0
1	Quinn	30	80	1	4	0	0	1	4	0	0
1	Patnam	10	176	0	14	0	0	0	14	0	0
13	Firewood	489	1,075	10	10	8	0	10	10	8	0
6	Stone lime	1,335	2,175	10	14	0	0	10	14	0	0
7	Sand	80	1,125	5	10	0	0	5	10	0	0
14	Corn	8,020	1,565	7	8	0	0	7	8	0	0
1	Water	40	40	2	0	0	0	2	0	0	0
3	Coal	7,250	736	2	6	0	0	2	6	0	0
2	Sugar	8	80	0	0	0	0	0	0	0	0
1	Bamboo	270	80	0	7	8	0	0	7	8	0
1	Patnam	23,980	1,785	24	15	0	0	24	15	0	0
12	Timber	86,247	19,100	2	1	9	0	2	1	9	0
31	Passengers	...	...	190	1	0	0	190	1	0	0
271	Fire-wood	32,057	30,210	182	6	0	0	182	6	0	0
129	Woolly	100	200	1	0	0	0	1	0	0	0
1	Vegetables	7,600	275	1	0	0	0	1	0	0	0
1	Sugar-candy	50	25	0	8	0	0	0	8	0	0
1	Furniture	50	25	0	8	0	0	0	8	0	0
1	Charcoal	50	25	0	8	0	0	0	8	0	0
1	Cumk	50	25	0	8	0	0	0	8	0	0
45	Rice	4,020	200	16	0	0	0	16	0	0	0
1	Skin	50	100	1	0	0	0	1	0	0	0
16	Plates	2,540	1,250	8	4	3	0	8	4	3	0
1	Plates	70	135	1	0	0	0	1	0	0	0
1	Malberry tree	1	30	0	0	0	0	0	0	0	0
1	Malberry tree	1,253	256	1	12	0	0	1	12	0	0
1	Malberry tree	6,250	840	1	12	0	0	1	12	0	0
1	Malberry tree	50	205	1	12	0	0	1	12	0	0
3	Malberry tree	1,700	160	4	12	0	0	4	12	0	0
3	Malberry tree	14,125	245	4	12	0	0	4	12	0	0
7	Malberry tree	10	75	0	0	0	0	0	0	0	0
3	Sugar-cane	1,79,552	...	572	1	6	0	572	1	6	0
837		...	3,114	...	...	...	...	...	...	...	...

M. B.—The tonnage shown above is that of the boats, and not of the cargo.

J. F. SCODDARD, Lieutenant-Colonel, M. S. C.,
Asst. to Chief Engr., and Lt. Secy., P. W. D., Irrigation Branch, Bengal.CALCUTTA,
The 3rd February 1871.

IRRIGATION BRANCH, PUBLIC WORKS DEPARTMENT, BENGAL.

ORISSA CIRCLE.

Statement showing the amount of Traffic and Tolls on the Kondrapah Canal during the month of December 1870.

DISTANCE FROM CUTTACK TO TERMINAL LOCK AT TIDE WATER, 42 MILES.

[illegible]

IRRIGATION BRANCH, PUBLIC WORKS DEPARTMENT, BENGAL.

ORISSA CIRCLE.

Statement showing the amount of Traffic and Tolls on the First Section of the High Level Canal during the month of December 1870.

LENGTH OF CANAL OPEN, 24½ MILES.

LOCAL TRAFFIC.						ABSTRACT.					
Number of boats.	Nature of cargo.	Approximate value of cargo.	Tonnage.		Tollage.	Number of boats.	Nature of traffic.	Value of traffic.	Tonnage.	Tollage.	REMARKS.
			Maunder.	Tons.							
		Rs. As. P.			Rs. As. P.			Rs. As. P.			
34	Passengers	...	414 in No.	...	11 7 8½	90	Local	484 2 0	180	37 4 0½	The tonnage shown in the statement is that of the boats, and not of the cargo.
25	Empty	...	2,608½	...	0 10 4	...	...	...	...	...
13	Straw	74 5 0	1,037½	...	4 10 7	...	...	...	...	...
11	Rice and Paddy	180 8 0	640½	...	2 3 8	...	...	...	...	...
9	Wood	1 3 0	58½	...	0 3 2	...	...	...	...	...
3	Pulkos	70 0 0	3 in No.	...	0 13 0	...	...	...	...	...
1	Horse	50 0 0	1 in No.	...	0 4 0	...	...	...	...	...
2	Vegetables	48 0 0	164	...	0 13 10	...	...	...	...	...
1	Steamer	...	1,056	...	10 0 0	...	...	...	...	...
98		484 2 0	5,026	180	37 4 0½	96		484 2 0	180	37 4 0½	

IRRIGATION BRANCH, PUBLIC WORKS DEPARTMENT, BENGAL.

ORISSA CIRCLE.

Statement showing the amount of Traffic and Tolls on the Taldundah Canal during the month of December 1870.

LENGTH OF CANAL OPEN, 7 MILES.

LOCAL TRAFFIC.				TRAFFIC BETWEEN CUTTACK AND NEALPORE.				STORES AND MATERIALS FOR IRRIGATION WORKS.				ABSTRACT.						
Number of boats.	Nature of cargo.	TONNAGE.		Approximate value of cargo.	Tonnage.	Tolls.	Tollage.	Number of boats.	Nature of cargo.	Approximate value of cargo.	Tonnage.		Tollage.	Number of boats.	Nature of traffic.	Value of traffic.	Tollage.	Rs. As. P.
		Mounds.	Tons.								Mounds.	Tons.						
6	Public	1,347	44	2,700	...	...	...	32	Lignite stone ...	50,000	72,106	2,576	180 4 2	22	Local Traffic	4,350	178	12 8 0
1	Public	263	10	600	...	...	...	23	Lime	10,000	12,402	441	83 10 5	10	...	...	...	...
1	Public	573	21	1,200	...	...	...	1	Car sandstone	200	1,585	21	1 7 4	10	Passenger	...	...	...
11	Public	2,185	54	...	...	...	...	13	Rubble ditto	2,000	8,839	237	10 0 6	69	Irrigation	72,931	231 15 6	...
22		4,550	178	4,550	...	...	12 11 7	68		72,106	82,502	3,214	231 15 5	110			3,211	287 1 9

N. B.—The tonnage shown is that of the boats, and not of the cargo.

IRRIGATION BRANCH, PUBLIC WORKS DEPARTMENT, BENGAL.

SOUTH-WESTERN CIRCLE.

Statement showing the amount of Traffic and Tolls on the Midnapore section of the High Level Canal during the month of December 1870.

LENGTH OF CANAL OPEN, 24 MILES.

LOCAL TRAFFIC.						ABSTRACT.					
Number of boats.	Nature of cargo.	Approximate value of cargo.	TONNAGE.		Tollage.	Number of boats.	Nature of traffic.	Value of traffic.	Tonnage.	Tollage.	Remarks.
			Mauddis.	Tons.							
		Rs.			Rs. As. P.			Rs. As. P.		Rs. As. P.	
5	Coal	1,225	5,200	...	46 0 0	280	Local	91,000 0 0	1,770	398 5 7	The tonnage shown is that of the boats, and not of the cargo.
9	Cotton	10,830	3,100	...	18 4 0	...	Pub. works	...	...	...
14	Firewood	3,743	6,310	...	39 10 4	...	...	...	...	...
9	Grain	980	575	...	8 8 6	...	...	...	...	...
2	Hides and horns	3,000	800	...	5 0 0	...	...	...	...	...
4	Jaggery & sugar	3,995	1,375	...	8 8 6	...	...	...	...	...
3	Metal	2,124	1,200	...	7 6 0	...	...	...	...	...
9	Miscellaneous	2,879	1,725	...	10 12 5	...	...	...	...	...
2	Oil and oil-seeds	718	425	...	2 7 6	...	...	...	...	...
10	Piece goods	28,500	3,550	...	22 8 0	...	...	...	...	...
2	Garden produce	1,080	575	...	3 9 8	...	...	...	...	...
6	Salt	4,325	2,375	...	14 13 8	...	...	...	...	...
3	Silk and Indigo	2,740	585	...	3 5 0	...	...	...	...	...
15	Tobacco	91,319	5,700	...	36 5 0	...	...	...	...	...
2	Bricks	48	250	...	3 9 0	...	...	...	...	...
27	Empty	...	13,650	...	91 7 0	...	...	...	...	...
24	Passengers	...	No. 270	...	6 1 4	...	...	...	...	...
	Miscellaneous	...	...	...	26 12 9	...	...	...	...	...
280	Total	91,000	44,025	1,770	398 5 7	280		91,000 0 0	1,770	398 5 7	

IRRIGATION BRANCH, PUBLIC WORKS DEPARTMENT, BENGAL.

SOUTH-WESTERN CIRCLE.

Statement showing the amount of Traffic and Tolls on the Hidgelee Tidal Canal during the month of December 1870.
LENGTH OF CANAL OPEN, 26 MILES.

LOCAL TRAFFIC.				STORES AND MATERIALS FOR IRRIGATION WORKS.				ABSTRACT.							
Number of boats.	Nature of cargo.	Tonnage.		Tollage.	Number of boats or rafts.	Nature of cargo.	Approximate value of cargo.	Tonnage.		Tollage.	Number of boats.	Nature of traffic.	Value of traffic.	Tonnage.	Tollage.
		Maunds.	Tons.					Maunds.	Tons.						
16	Tobacco	1,400		Rs. As. P. 9 0 0	27	Sand	Rs. 8	7,750	Rs. As. P. 88 12 0	418	Local for Irr. works.	1,840	Rs. 1,01,877 8	1,840	Rs. 218 2 0
16	Salt	1,675		9 0 0	1	hoorkee		150	1 11 0	28		280		280	40 7 0
1	Cotton	407		9 0 0											
1	Orange	200		1 0 0											
5	Corn	700		3 8 0											
5	Clothes	96		4 10 3											
5	Sugar	1,100		0 8 8											
5	Oil-rakes	283		1 0 0											
5	Firewood	700		3 0 6											
5	Pottery	610		8 5 0											
1	Water	40		2 0 0											
16	Coal	15,250		70 10 0											
5	Sand	1,750		8 12 8											
182	Empty	1,450		71 11 0											
16	Passengers	No. 1,200		8 15 0											
16	Timber	1,760		22 8 0											
5	Grass	1,500		7 8 0											
57	Rice	3,080		23 3 0											
84	Paddy	5,785		29 1 0											
5	Tea	650		8 3 8											
1	June	275		0 12 1											
1	Coconut	150		0 0 0											
1	Vegetable	50		0 0 0											
1	Sugarcane	25		1 4 0											
4	Manure	265		0 8 0											
3	Madiah	116		1 0 0											
5	Mustard	183		0 12 5											
1	Curry wood	60		1 0 3											
1	...	80		0 10 9											
2	...	180		4 0 0											
6	...	650		11 0 0											
418		54,310		1,940	25			7,050	40 7 0	448		1,01,876	2,250	353 9 0	

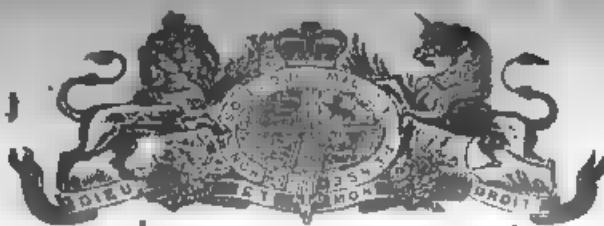
N. B.—The tonnage shown above is that of the boats and not of the cargo.

CALCUTTA,
The 3rd February 1871.

J. P. STODDARD, Lieut.-Col., M.B.C.,
Asst. to Chief Engr., and Jt.-Secy., P. W. D., Irrigation Branch, Bengal.

PRINTED BY EDWIN MORRIS LEWIS, AT THE BENGAL SECRETARIAT OFFICE.

No. 7



of 1871

SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, FEBRUARY 15, 1871.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT, separately, on payment of six Rupees per annum if delivered in Calcutta, or twelve Rupees if sent by Post.

Papers relating to the question of allowing 3 per cent. of the rental of Government estates for local improvements.

From the Secretary to the Board of Revenue, to the Secretary to the Government of Bengal,—
(No. 134, dated the 5th April 1859.)

SIR,

THE commissioner of the Cuttack division has informed the Board that, with the sanction of Government, a new line of road is under construction from Peeplee to Khoordah, in the Pooree district, and as he is of opinion that the Khoordah estate will principally benefit by the road, he has solicited permission to defray half its cost from the collections of the estate.

2. The Board fully recognize the utility of the work, and they have no doubt that it will be very useful in facilitating communication and increasing the commerce, which is represented to be already very considerable along the present imperfect route; and as the Khoordah estate is susceptible of great improvement, they think it advisable that a certain portion of its proceeds should be devoted to its general improvement. With this view the Board beg to recommend that 5 per cent. of the net jumma of the estate may be made available for improvements, disbursements being made under the sanction of the commissioner, who will submit to the Board an annual statement of works undertaken, and of sums disbursed. The expense of the road above referred to should be defrayed from this allowance.

From the Secretary to the Government of Bengal, to the Secretary to the Government of India,—(No. 997, dated Fort William, the 23rd April 1859.)

SIR,

IN the accompanying letter from the Board of Revenue sanction is solicited to the expenditure of a portion of the rental of the Khoordah estate in Pooree, which belongs to Government, on local works for the improvement of the estate, under the superintendence of the commissioner of the division.

2. It is proposed by the Board of Revenue that 5 per cent. of the net collections should be set aside for this purpose, but this, in the Lieutenant-Governor's opinion, is too large a proportion. In the Khoordah estate 5 per cent. of the net jumma would amount to some Rs. 9,000 per annum. In His Honor's opinion 3 per cent. of the net collections would be sufficient to place at the disposal of the commissioner for carrying out those local objects on which a good zemindar would be disposed to expend a portion of his income for the benefit of the estate.

3. If His Excellency the Governor General in Council should approve of this proposition in the case of the Khoordah estate, the Lieutenant-Governor would venture to suggest that the principle should be extended to Government estates generally.

From the Secretary to the Board of Revenue, to the Secretary to the Government of Bengal,—
(No. 164, dated the 25th April 1859.)

SIR,

MR. DEARE, the deputy collector of Bhuddruck sub-division, who is in charge of the Government talook Noanund, in Balasore, lately took occasion to visit the talook, and has communicated the result of his inspection in the form of certain propositions for the improvement of the estate.

3. The commissioner knows of no good reason why the expenditure should not be allowed at once out of the collections of the estate. It is, he observes, the duty of Government as proprietor to improve its own property, which has been in its possession for about forty years without any attempt whatever having been made for its improvement.

8. The Board appreciate Mr. Deare's desire to improve the estate, of which he has been placed in charge, and consider his proposals well worth consideration. They concur with the local officers as to the primary necessity of the road, but there are no ferry funds available, or any funds for carrying into effect plans for the improvement of the estate. They are of opinion that it would be of advantage to create such a fund in Balasore, and with this view they would recommend that 5 per cent. of the annual revenue of the Noanund talook be set apart as a khas mehal fund to be expended for the improvement of the estate. The accumulations of this annual grant would in a few years suffice to carry out many of the measures proposed by Mr. Deare.

From the Secretary to the Government of Bengal, to the Secretary to the Board of Revenue,—
(No. 1118, dated Fort William, the 6th May 1859.)

SIR,

I AM directed to acknowledge the receipt of your letter No. 164, dated the 25th ultimo, and in reply to state, with reference to your previous letter, No. 134 of the 5th idem, that a proposition has been submitted to the Government of India for the assignment of 3 per cent. of the rental of the Khoordah estate for local improvements, and it has been suggested that if this meets with the sanction of the Supreme Government in the case of the Khoordah estate, the same rule might be extended to all estates the property of Government.

From the Under-Secretary to the Government of India, to the Secretary to the Government of Bengal,—(No. 1142, dated the 4th June 1859.)

SIR,

I AM directed to acknowledge the receipt of your letter No. 997, dated the 23rd April last, with enclosure, and to inform you in reply that His Excellency the Governor General in Council is pleased to sanction the rule suggested by the late Lieutenant-Governor, that commissioners, under the general sanction of Government, shall be vested with a discretion to expend not more than 3 per cent. of the net collections from Government estates on objects calculated to improve the condition of the estates and of the ryots occupying them.

From the Officiating Secretary to the Board of Revenue, to the Junior Secretary to the Government of Bengal,—(No. 494, dated Fort William, the 16th July 1861.)

SIR,

I AM directed to acknowledge the receipt of your letter No. 308, dated the 17th ultimo, forwarding an extract from a letter from Captain Hopkinson, the commissioner of Assam, proposing to double the land taxes of that province and to devote the excess so obtained to the construction of works of public utility.

2. In reply I am desired to say that the subject of an increase to the rates of assessment having been for some time under the consideration of the Board on certain propositions submitted by Colonel Jenkins, the late commissioner of the province, they are enabled to communicate, without further reference to the local authorities, the opinions which they have formed on the subject referred to them in your letter under acknowledgment.

3. The proposals which were made by Colonel Jenkins, and which are explained in detail in the subsequent paragraphs of this report, were—*first*, to increase the rates of assessment on land throughout Assam proper; and, *secondly*, to extend to that province, where the property in the soil belongs to the State, the authority under Government order No. 1414 dated the 11th June 1859, of assigning 3 per cent. on the collections to the improvement of estates which are the property of Government.

5. It appears to be acknowledged on all hands that the present rates of taxation are light, and though the opinions of officers employed in the districts, both now and in past times, differ as to the distinction which should be observed according to the position and circumstances of particular localities, it appears to be generally admitted that an increase on the present rates of some kinds of land may be effected without any hardship to the people.

10. The following extract gives the substance of Colonel Jenkins' opinion on this subject:—

"For instance, Kamroop possesses very evident advantages over all the other divisions, particularly in being so near the great marts below, and possessing the means of navigation by the large Bengali boats, which have at all times easy access to Gowalparah, and at most times to Gowhaty and Burpettah, three great marts of the Kamroop division; but beyond Gowhaty, from the strength of the current, and the short time westerly winds prevail, the navigation by large boats is difficult and uncertain, and ever increasing in difficulty as the river is ascended."

"This command of navigation is of the highest advantage to Kamroop, and, considering also the superior denseness of its population, and generally greater advancement in trade and civilization, I am of opinion that Kamroop may always bear a higher taxation than any other division."

"The reverse to Kamroop is the Luekingpore division, which has generally very spare and backward population, and can hardly be said to have any communication direct with the great Bengali marts, and must depend on the local consumers, in great measure, for the sale of its surplus produce."

"The other divisions may be said to be intermediate between these two in their enjoyment of the advantages alluded to; but local circumstances make small differences in each. Seesagur benefits above all in the local expenditure of money from the great extent of the tea plantations in the division, but it is more than all the other divisions liable to constant destruction of crops from the inundations of its hill streams. Durrung, perhaps, is the most unfortunate of all, large tracts being almost destitute of population, and not generally favorable to rice cultivation; whilst it has little or no trade, only three small tea plantations: and the prime portion of its laborers, the Doan Cacharees, are enticed away in all directions for the cultivation of tea and for public works."

"The relative circumstances of the divisions may thus, I think, reasonably be opposed to the equalization of the rate throughout the province."

11. The Board cannot but feel that much credit must be attached to the opinions of an officer with such large local experience as Colonel Jenkins. Rice is not an article of export from Assam, and land for producing it is available in unlimited tracts; and if the original assessment were in proportion to the means of the people, it is not likely that such a demand for rice has as yet been created by the importation of coolies for the tea factories, as would justify a general rise in the rate of rent for roopeet land.

12. On this point Colonel Jenkins writes:—

"Of the great crops, rice is grown on a variety of lands, but the lands taxed highly are those which produce the great crop, planted out at the height of the rains and harvested in November and December, the roopeet crop of the Assamese; but I think it is universally allowed that altogether the roopeet is less profitable than the mustard seed, requiring more attention, more labor of cattle and men, and more liable to suffer from vicissitudes of season, and more uncertain from the inundations of the rivers."

"It was likewise generally asserted that a great deal of our suffering from the scarcity of grain was owing to the attention of the ryots being too much directed to the cultivation of mustard seed."

"It seems probable therefore that it has proved disadvantageous to the people that we have taxed the roopeet lands so much higher than the other lands, and a large supply of rice being of such very high importance in every way to the people and the planters, I should be disposed to encourage the great rice crop by making no further addition to the rates of the roopeet land; and in this opinion I am confirmed by a conversation I had at Nowgong with the principal sudder ameen of that station, formerly revenue sheristadar of Durrung, and a man of great experience and good judgment, who was altogether averse from adding to the assessment on the roopeet lands."

13. These reasons, which carry great weight with them, induce the Board to join Colonel Jenkins in deprecating any alteration of the rates of assessment now levied from the roopeet lands in the province. * * * *

16. At the same time the Board would give their cordial support to Colonel Jenkins' recommendations, made in concurrence with the opinions of the collectors of those districts, that the rate of assessment on other lands than roopeet should be raised generally from 1 Re. to 1-2 in Nowgong and Durrung, and from 14 annas in Seebsagur, and 12 annas in Luckimpore, to 1 Re.; the rates in Kamroop remaining unaltered pending the ten years' settlement, under which this district is now held. * * * *

19. The Board are of opinion that for the present at least the above should be the limit of the increase of assessment to be introduced into the Assam province. * * * *

21. The second proposition made by Colonel Jenkins was to provide out of the local revenues for the general construction and periodical repair of the roads and bridges of the province.

22. A good road through the province would greatly promote its progress; and the desultory, partial, and inefficient manner in which the repairs of the existing roads and bridges are effected, and the extension of new works of absolute necessity is protracted while they are probably owing, in some measure, to the absence of proper superintendence, are doubtless in a great degree attributable to the absence of independent funds of sufficient amount to cover the outlay which such works require.

23. As already observed, the proprietary right in the land in Assam belongs to the Government, and the Board would propose to apply to it also the principle of Government order sanctioning the appropriation of 3 per cent. on the collections to purposes of local improvement. Among the causes which have retarded the progress of improvement in the province, it has been complained that the small quantity of the revenue of the province expended within it is one of the greatest. A regular outlay of a certain percentage of the revenue on works of public utility, and especially in facilitating the communication between the several districts, would remedy an acknowledged defect in the present state of the province; and being spent in great measure among the agricultural population, would lead to larger clearances of waste lands, and to the general development of the resources of the country.

From the Junior Secretary to the Government of Bengal, to the Secretary to the Government of India,—(No. 863A, dated Fort William, the 15th August 1861.)

SIR,

I AM directed to submit, for the consideration and orders of the

* From secretary to the Government of Bengal, public works department, No. 2382, dated 31st May 1861, with enclosure.

To officiating secretary, Board of Revenue, No. 308, dated 17th June 1861.

From ditto, No. 494, dated 16th July 1861.

Government of India, the accompanying copy of a correspondence* relating to a proposal for increasing the land tax in the province of Assam.

2. The proposal, it will be seen, emanated with the present commissioner, Captain Hopkinson, who was of opinion that the land tax in Assam should be increased double the present rate, and the excess so obtained devoted to the

construction of works of public utility in that province. The Board of Revenue, who were consulted on the subject, and whose report is annexed, do not consider it expedient that the tax should be doubled, or that an alteration should be made in the rate of assessment of every description of land. They state that the subject of an increase to the rates of assessment had been for some time under their consideration, on certain propositions submitted by Colonel Jenkins, the late commissioner; and in concurrence with the views expressed by that officer, they are of opinion that the rate of assessment on lands other than what is generally called roopeet, i.e., land on which rice is grown, may safely be increased. They accordingly propose that the rates on the lands appropriated to the growth of linseed and mustard be raised generally from 1 Re. to 1-2 in Nowgong and Durrung; and from 14 annas in Sechsaugur, and 12 annas in Luckimpore, to 1 Re. per poorah; the rates in Kamroop remaining unaltered, pending the ten years' settlement under which that district is now held.

4. With regard to the question of constructing roads and other works of public utility, the Board propose to apply to it the principle of the order communicated in Mr. Under-Secretary Chapman's letter No. 1142 dated the 4th of June 1859, sanctioning the appropriation of 3 per cent. on the collections to purposes of local improvement.

5. The Lieutenant-Governor entirely agrees in the views of the Board as expressed in their report now submitted.

From the Secretary to the Government of India, to the Junior Secretary to the Government of Bengal,—(No. 1621, dated the 30th August 1861.)

SIR,

I AM directed to acknowledge the receipt of your letter No. 863A, dated the 15th instant, enclosing copy of a correspondence with the Board of Revenue on the subject of a proposition for increasing the land tax in the temporarily settled districts of Assam, and for applying to those districts the order of the Government of India dated the 14th June 1859, sanctioning the expenditure of 3 per cent. of the net collections from Government estates on objects calculated to improve the condition of the estates and of the ryots occupying them.

2. In reply, I am directed to state that the Governor General in Council sanctions the appropriation prospectively from 1862-63 of 3 per cent. of the land revenue of the temporarily settled districts of Assam for purposes of local improvement, and His Excellency in Council hopes that the Lieutenant-Governor will be able to make better provision for the wants of Assam in respect of roads, &c., in the next budget.

3. With regard to the expediency of increasing the land assessment in Assam, I am desired to intimate that the Governor General in Council leaves that question to the discretion of the Lieutenant-Governor.

From the Under-Secretary to the Government of Bengal, to the Secretary to the Board of Revenue,—(No. 1263A, dated Fort William, the 18th December 1861.)

SIR,

I AM desired to acknowledge the receipt of your letter of the 12th ultimo, No. 803, submitting a copy of one from the commissioner of Assam, in which, after commenting on the inadequacy of the means at his disposal for the improvement of the province in public works, he suggests that the profits from the sale of abkaree opium, which have accrued by the prohibition of the cultivation, and free use of indigenous opium in Assam, should be applied to that purpose.

2. The Lieutenant-Governor entirely agrees with the Board in thinking the commissioner's proposal such as cannot be supported.

3. There is no reason why an item of ordinary imperial revenue, such as the abkaree opium revenue is, should be appropriated for local objects in Assam more than in any other province where the same item is levied. Major Hopkinson to a considerable extent misunderstands the grounds on which the rules affecting the opium revenue, and the cultivation of opium, were assimilated